

Crowley, Patrick

From: Crowley, Patrick
Sent: Monday, July 18, 2005 11:16 AM
To: Bollman, Jeff
Subject: RE: Laurel Landfill

I will fax you the appropriate letters from our files.

F. Patrick Crowley
Solid Waste Regulatory Program Manager
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-9091
Phone 406-444-5294
Fax 406-444-1374
email pcrowley@mt.gov

-----Original Message-----

From: Bollman, Jeff
Sent: Monday, July 18, 2005 11:10 AM
To: Crowley, Patrick
Subject: Laurel Landfill

Pat:

I'm trying to track down some information on the former Laurel Landfill that was located on State land on Section 33 T1S R24E. Specifically what I'm looking for is a copy of a letter/release, etc. that I assume came from DEQ stating that the landfill had been reclaimed to the satisfaction of DEQ. The best our records indicate is that the reclamation started in the early 1990s and has been completed. Yellowstone County was the holder of the easement for the landfill and since it is no longer operational, they want to terminate the easement. In order for us to do this we need confirmation that the site has been reclaimed to DEQ's satisfaction.

If you are not the correct person to get this information for me, I would appreciate you forwarding this message to the proper person.

Please feel free to contact me with any questions.

Cordially,
Jeff Bollman

Jeff Bollman, AICP
Planner
Southern Land Office
MT Dept of Natural Resources & Conservation
Airport Business Park
1371 Rintop Drive
Billings, MT 59105
406-247-4404 (phone)
406-247-4410 (fax)

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Waste Management Division
Solid Waste Program
406/444-1430

FAX # (406) 444-1499



STATE OF MONTANA

OFFICE 2209 PHOENIX AVE.
LOCATION: HELENA, MONTANA

MAILING PO BOX 200901
ADDRESS: HELENA, MT 59620-0901

April 27, 1995

Monte Smith
923 2nd Avenue
Laurel, MT 59044

Dear Monte:

The old Laurel Landfill (license # 24) was closed well prior to the effective date of current regulations and is thus subject only to the old Solid Waste Rules which required two feet of approved earthen cover upon closure. In addition to this, the 1972 EPA document Sanitary Landfill Design and Operation is supposed to be followed. Neither the old rules nor the guidance preclude surface uses of the landfill.

Current regulations, for landfills closed after October 9, 1991, require that any surface uses may not disturb the integrity of the final cover, liner(s), or other containment components. It would be prudent to follow the non-disturbance policy, even if not strictly required by rule. Building structures on old landfills presents two problems, poor foundation conditions and methane gas explosion hazard. Both conditions can be addressed, but the solutions could be costly.

As for who has administrative authority over the site now, that question should be asked of the Department of State Lands, the landowner. There may still be an existing lease on the property to the City of Laurel. The DHES/Solid Waste Program does not assert authority over the use of the property. The DSL has an office in Billings that may be of help.

I hope this addresses your questions. If not, please give me a call.

Sincerely,

A handwritten signature in dark ink, appearing to read "F. Patrick Crowley".

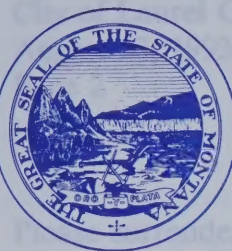
F. Patrick Crowley
Solid Waste Regulatory Lead

File:Yellowstone County\Laurel Landfill (closed)
Path:H:\cb5403\wp\landfill\closure\laurel

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Solid and Hazardous Waste Bureau
Solid Waste Program
(406) 444-1430

FAX # (406) 444-1902



STATE OF MONTANA

OFFICE LOCATION: 2209 PHOENIX AVE.
HELENA, MONTANA

MAILING ADDRESS: PO BOX 200901
HELENA, MT 59620-0901

August 23, 1993

COPY

Peggy Schram, Director of Public Works/City Engineer
City of Laurel
P.O. Box 10
Laurel, MT 59044

SUBJECT: Closure Inspection of City of Laurel Class II Landfill, License #203

Dear Ms. Schram:

On March 5, and June 21, 1993, I inspected the City of Laurel Class II Landfill, license #203, to determine if the site had been properly closed, in accordance with the laws and rules of Montana governing solid waste. Enclosed is a copy of my inspection report.

It should be noted that the City of Laurel Class II Landfill, license #203, stopped receiving waste prior to January 1, 1993, and that the closure plan for the facility was also approved prior to that same date.

Upon completion of my inspection, and upon completion of the required work stated below, the City of Laurel Class II Landfill, license #203, will be considered closed. The remaining work consists of filling, compacting and regrading any erosional channels that have formed over the waste disposal areas, with subsequent reseeding of the entire landfill area. In addition, "No Trespassing/No Dumping" signs should be prominently displayed near the entrance, and the entrance gate should remain locked. Verification of the regrading, revegetation, sign placement, and access control, will be determined by future inspections. However, these future inspections will not necessitate further correspondence unless a problem is found.

Also, at the time of inspection, the former Director of Public Works, Jim Worthington, inquired of the possibility of removing the south and east fences at the facility, in order to reuse the fencing at another location. The Solid Waste Program finds this proposal acceptable, as neither the south or east fence control vehicular access to the site from any area roadways.

City of Laurel Class II Landfill (#203) Closure

August 23, 1993

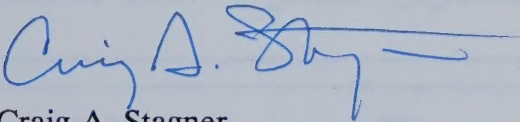
Page 2

Please surrender the license for the City of Laurel Class II Landfill, in order to complete closure. If you do not have the license, due to loss, etc., please send us a letter stating that fact.

You should be aware that this letter, verifying closure of the Laurel landfill, does not negate the City of Laurel's responsibility to comply with Montana's requirements for ground water monitoring at closed Class II landfills. Additionally, continuous monitoring of the landfill cap integrity is required, with subsequent repair of any erosional degradation and maintenance of vegetative cover.

Thank you for your efforts and please do not hesitate to contact me if you have any questions.

Sincerely,



Craig A. Stagner
Environmental Specialist

Enclosure: Closure Inspection Report

cc: Chuck Rodgers, Mayor, City of Laurel, P.O. Box 10, Laurel, MT 59044
Ted Kylander, R.S., Yellowstone City-County Health Dept., P.O. Box 35033, Billings,
MT 59107

CAS/cas

Path: f:\usr\cb5591\wp\sw\closure.93\laurel.819

File: Solid Waste/Yellowstone County/Laurel Class II Landfill Lic. #203

SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT LANDFILL CLOSURE

Location of Site: City of Laurel
License #: 203
County: Yellowstone
Operator/Owner: City of Laurel

Date: June 21, 1993
Class: II
Address: Laurel, MT

YESNO

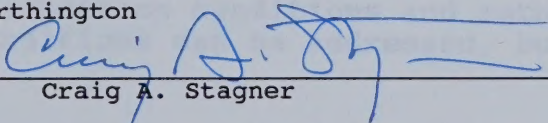
Explain No answers on Page Two

1. Minimum of Two Feet Soil Cover on All Wastes: X
2. Soil Cover Meets Minimum Permeability Standard: X
(1×10^{-3} centimeters/second)
3. Surface Water Runoff Controlled: X
4. Positive Drainage for Waste Filled Areas: X (see comments below)
5. Site Revegetated: X
6. Access to Site Controlled: X
7. Other (Explained on Page Two)

Control of Site: ___ Signs X Fences and Gates ___ Supervision ___ None

Equipment at Site: ___ Yes X No

Person(s) Seen: Jim Worthington

Signature of Inspector: 
Craig A. Stagner

COMMENTS

4. At the time of inspection, there were some erosional run-off channels overlying the waste disposal areas. These erosional features should be refilled, compacted, and regraded, prior to reseeding the entire landfill area. Natural or engineered run-off channels that are outside the areal perimeter of the actual waste disposal areas are acceptable, though revegetation of the entire landfill area would help reduce further erosion.

5. At the time of inspection, the site had not been reseeded, and invader species were prevalent in many portions of the site. According to Jim Worthington, the site will be reseeded at the earliest convenience, after the City of Laurel's receipt of this inspection report. Revegetation of the site should be verified sometime during the spring or summer of 1994.

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Waste Management Division
Solid Waste Program
406/444-1430

FAX # (406) 444-1499



STATE OF MONTANA

OFFICE 2209 PHOENIX AVE.
LOCATION: HELENA, MONTANA

MAILING PO BOX 200901
ADDRESS: HELENA, MT 59620-0901

April 7, 1995

Monte Smith
923 2nd Avenue
Laurel, MT 59044

Dear Monte:

The old Laurel Landfill (license # 24) was closed well prior to the effective date of current regulations and is thus subject only to the old Solid Waste Rules which required two feet of approved earthen cover upon closure. In addition to this, the 1972 EPA document Sanitary Landfill Design and Operation is supposed to be followed. Neither the old rules nor the guidance preclude surface uses of the landfill.

Current regulations, for landfills closed after October 9, 1991, require that any surface uses may not disturb the integrity of the final cover, liner(s), or other containment components. It would be prudent to follow the non-disturbance policy, even if not strictly required by rule. Building structures on old landfills presents two problems, poor foundation conditions and methane gas explosion hazard. Both conditions can be addressed, but the solutions could be costly.

I hope this addresses your questions. If not, please give me a call.

Sincerely,

A handwritten signature in dark ink, appearing to read "F. Patrick Crowley".

F. Patrick Crowley
Solid Waste Regulatory Lead

File:Yellowstone County\Laurel Landfill (closed)
Path:H:\cb5403\wp\landfill\closure\laurel

4/3/95

RECEIVED

APR 04 1995

Montana Department of Health
and Environmental Sciences
Waste Management Division

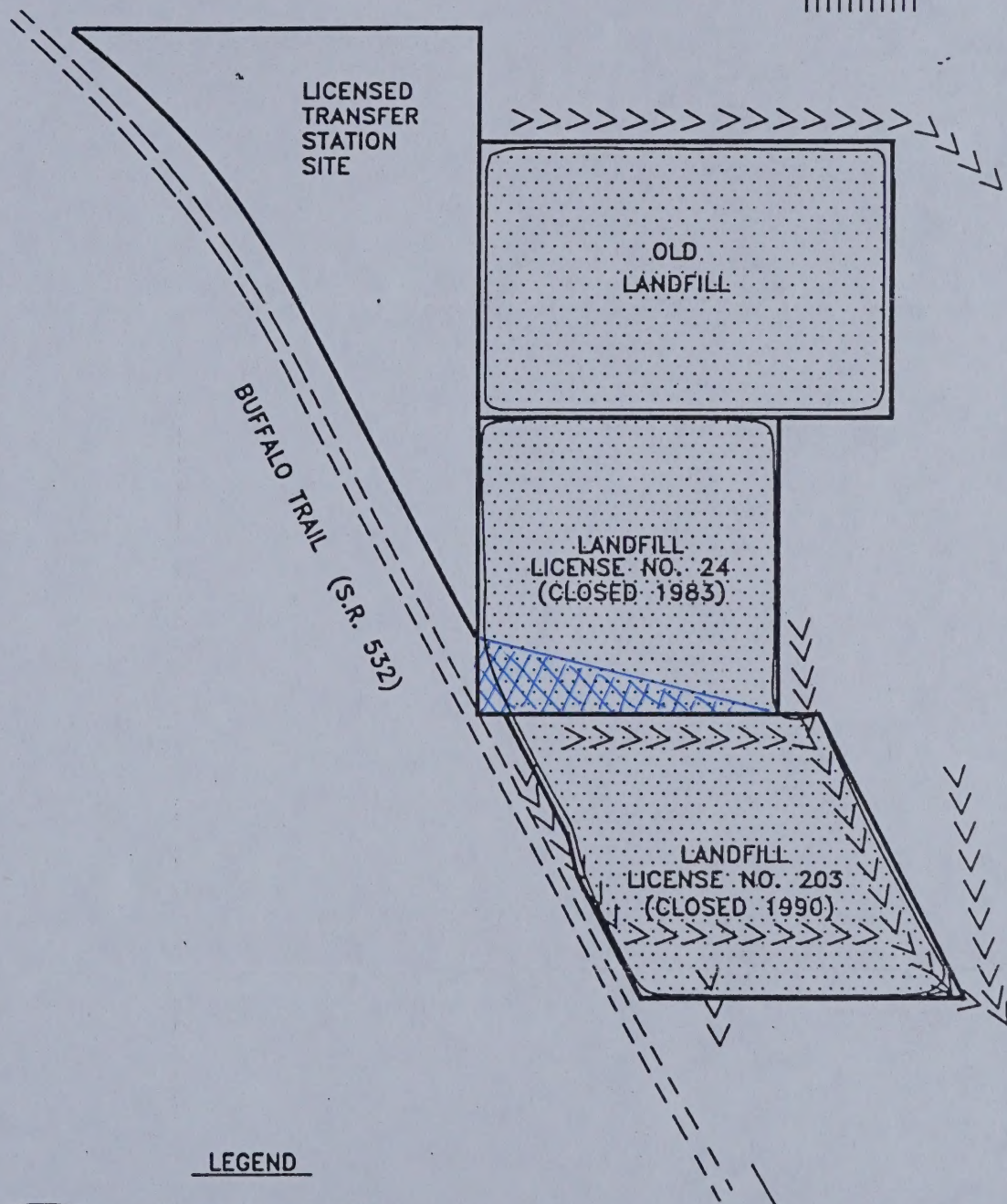
Pat Crowley
DHES Waste Management Program
2209 Phoenix Avenue
PO Box 200901
Helena, MT 59620-0901

Hey Pat:

Per our phone conversation - will you please send
me a brief note stating what the status is
of the cross-hatched area ~~located~~^{in the} license
24₆ area.

Thanks;

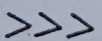
Monte (Smith)
923 2nd Ave
Laurel, MT
59044



LEGEND



APPROXIMATE LIMITS
OF BURIED WASTE



SURFACE WATER DIVERSION

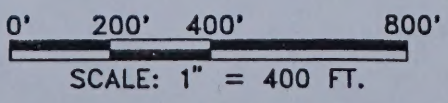


FIGURE 2

**GENERAL SITE MAP
CITY OF LAUREL LANDFILL
LAUREL, MONTANA**

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

DATE:

April 5, 85

1.

Proof

2.

Van JD

3.

☒ Approval

☐ Comment

☐ Necessary Action

☐ Note and Return

☐ Note and File

☐ Investigate

☐ Prepare reply

☐ Signature

☐ See Me

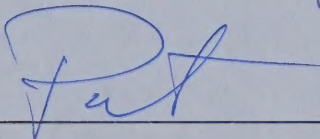
☐ As requested

☐ For your information

☐ Per Conversation

REMARKS:

FROM:



4-7-95
gbb



FIRE/AMB/POLICE
217 W. 1ST. ST.
PHONE: 628-8737

City of Laurel

P.O. BOX 10
LAUREL, MONTANA 59044

OCTOBER 22, 1993

CITY ENGINEER
DEPARTMENT

*File: City of Laurel
Yellowstone Co.*

CITY HALL
115 W. 1ST ST.
PHONE: 628-8791

RECEIVED

OCT 26 1993

Pat Crowley
P.O. Box 200901
Cogswell Building
Helena, Mt. 59620

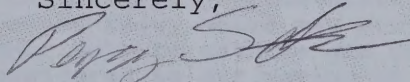
MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID AND HAZARDOUS WASTE DIVISION

Dear Mr. Crowley:

The City of Laurel is requesting approval for a conditional storage site on City owned lands 1 1/2 miles north of the City limits, at our possible future Class III Landfill Site, adjacent to our container site.

This storage site will be used for branches and limbs broken off in an October 14th snowfall. Access to the area will be controlled.

Sincerely,



Peggy Schram
City Engineer

PS/cl

*Verbal approval
given
J.P. Crowley*

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

Proof ~~FLX~~
Jim TW

DATE:

11/18/92

1.

~~THAT~~

2.

Jon JD

3.

Roger ~~FLX~~ Duane ~~FLX~~

☒ Approval

☐ Comment

☐ Necessary Action

☐ Note and Return

☐ Note and File

☐ Investigate

☐ Prepare reply

☐ Signature

☐ See Me

☐ As requested

☐ For your information

☐ Per Conversation

REMARKS:

Response to GHS closure plan
for Laurel Class II

FROM:

J.E.T.

mailed
11-19-92
JH



19. 2/11/11

10-11

10-11

10-11

10-11

Yellowstone Co.

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Solid and Hazardous Waste Bureau

Solid Waste Program

(406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

November 19, 1992

Bill Bucher, Senior Hydrologist
GeoResearch, Inc.
910 Helena Avenue
Helena, MT 59601

SUBJECT: Closure Plan for the City of Laurel Class II Landfill #203

Dear Mr. Bucher:

We have received and reviewed the GRI closure plan for Cover Material, Drainage Control, Revegetation, Access Control, Landfill Gas Collection, and Post-Closure Maintenance and Monitoring. I understand the Groundwater Monitoring Results will be sent under separate cover for additional review.

This plan appears to meet or exceed the State of Montana requirements for landfill closure. However, I have some concern on the number of samples used to characterize the hydraulic conductivity of the material to be used for final cover of the entire landfill area. If your intention is to demonstrate that the final cover of the Laurel landfill meets or exceeds 40 CFR Part 258 final cover permeability standards, it may be prudent to analyze this for correlation with representative sample points of the in-place density and thickness grid network after application and compaction of the cover material.

Your contention that the generation of leachate should not be a problem given the specifications for the landfill cap may be overly optimistic. The facility has a history of water infiltrating the working face, which may not only have affected leachate generation, but may also contribute to methane gas production. The leachate question will be further considered in our review of groundwater issues. Methane monitoring is not appropriately addressed in existing Montana solid waste laws and would only come in to play if Laurel does not meet federal closure deadlines.

The Solid Waste Program approves the closure plan submitted to our office on November 17, 1992. Although not a condition of closure, we look forward to the receipt of the pending groundwater results to be submitted in accordance with ARM 16.14. Subchapter 7.

Thank you for your well prepared report. Please feel free to call if questions arise concerning this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read "E. Thamke".

Edward A. Thamke
Solid Waste Program

c. Jim Worthington, City of Laurel Public Works Department, P.O. Box 10,
Laurel, MT 59044
George F. Sheckleton, M.D., Yellowstone City-County Health Department, P.O.
Box 35033, Billings, MT 59107

H:\...\closure\laurel1.118

File: Yellowstone County-City of Laurel Class II #203

November 17, 1992

Mr. Jim Wilbur
Solid and Hazardous Waste Bureau
Department of Health and Environmental Sciences
Cogswell Building
Helena, MT 59620

Dear Jim:

On behalf of the City of Laurel, GeoResearch is submitting the enclosed closure plan for the City of Laurel landfill. This plan addresses the cover, drainage, and revegetation requirements of the state regulations. A hydrogeologic study is currently being completed by GeoResearch and a report on this investigation will be submitted under separate cover.

The City of Laurel would like to close the landfill by December 31, 1992. If you could expedite the review of this plan to allow compliance with that deadline, it would be greatly appreciated. Please call me if you have any questions on the closure plan or would like to meet to discuss it.

Sincerely yours;

Bill Bucher, P.E.
Senior Hydrologist

Enc: Closure plan

cc: Jim Worthington - City of Laurel
D. Richardson - GeoResearch

RECEIVED

NOV 17 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID AND HAZARDOUS WASTE BUREAU

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau
Solid Waste Program

STAN STEPHENS, GOVERNOR (406) 444-1430

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

May 8, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jim Worthington
Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Interim Transfer Station license expiration, Landfill requirements-
Groundwater monitoring notification

Dear Mr. Worthington:

I have reviewed your renewal application for the City's solid waste management system license. The responses to some application questions indicates some misunderstanding of the two solid waste licenses the City has. I will try to clarify these issues in this letter.

First, the license issued to the City for Interim Solid Waste Transfer Site or container site (License #301) on May 3, 1990 was limited to a term of two years (until May 3, 1992) to allow the City (1) to close the old landfill and (2) to design and construct a permanent transfer station. A condition of the interim license was "This license must be either modified or replaced within two (2) years of date of issue." Also the container site was allowed to be constructed to less stringent standards since this was to be a temporary facility. This license has now expired. Since the City has failed to meet the two objectives of closure of the old landfill and design, licensing, and construction of a permanent transfer station the department will entertain a request to extend the term of this interim license until January 1, 1993 with certain conditions. Those conditions will be the following:

1. The City of Laurel will submit a **complete license application** for this site as a transfer station or permanent container site at this location by **January 1, 1993**. An application is usually not considered complete until response to departmental review of the initial application and all issues has been resolved. Therefore, the City will need to submit the initial application two to three months prior to January 1st to allow time for review and response that can realistically be expected.

2. The City of Laurel will submit a **closure plan** for the old City of Laurel Class II landfill and expansion area (license #203) and bring the facility into **complete compliance** with departmental rules by **January 1, 1993**.
3. The written request for extension of the term of license for the interim transfer station (license #301) shall include specific acceptance of these conditions and must be **received** by the department by **June 30, 1992**.

Secondly, the renewal form for the City of Laurel landfill (license #203) indicated a desire to combine the interim transfer station license and the landfill license. This is not possible due to the fact that only licensed facilities may be combined if they operate in a complementary manner, such as a container site collecting waste for disposal at a specific landfill operated by the same entity. Your container site collects waste for disposal at the City of Billings landfill not the City of Laurel landfill, therefore they may not be combined. Also, the answer to the question concerning annual tonnage disposed of at the landfill was not answered. Only the tonnage collected at the container site and transported to the Billings landfill was given. The tonnage or volume of all wastes disposed of at the City of Laurel landfill between January 1, 1991 and December 31, 1991 is necessary to provide information to calculate billing for the fiscal year 1993 (begins July 1st) license renewal fee. This information must be provided promptly for this process to continue.

The closure of the landfill requires submittal of a closure plan for review and approval by the department. This plan should include a map of the site indicating location of waste disposal, depth of cover and additional cover needs to meet final cover requirements, and final cover topographic contours of the site. Also all drainages on the site need to be shown and all diversion structures planned to provide surface water runoff and runoff requirements must be included with design standards for these diversions. Permeability of final soil cover should be addressed. The State standard is maximum permeability of 1×10^{-3} centimeters/second (cm/sec). However, if household waste has been disposed of in this disposal site after October 9, 1991 more stringent federal regulations [Subtitle D - 40 CFR part 258.60(a)(1&2)] for final cover soil permeability standards are in effect.

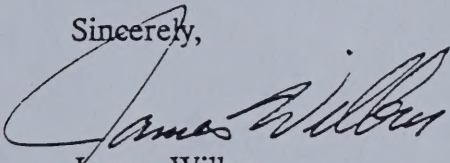
Groundwater monitoring is required of the City of Laurel landfill (license #203) facility by section 75-10-207(1) (Montana Code Annotated) of the Solid Waste Management Act. Therefore the groundwater monitoring system will be an integral component of your closure plan and post closure responsibilities. This is your formal notification under 16.14.703(1)(c)(ii) ARM that a hydrological and soils study of the site must be completed for the purpose of implementing the required groundwater monitoring system at this facility. This section of the rules requires that a work plan must be submitted 90 days after this notification by the department. Also the number and location of all down gradient groundwater quality monitoring wells at the site must be approved in writing by the department (16.14.704[2] ARM). A sampling

City of Laurel Solid Waste letter
May 6, 1992
Page 3

and analysis plan must be submitted to the department prior to any groundwater sampling (16.14.706[2] ARM]. I am enclosing a copy of landfill groundwater rules and forms for your reference and use. You may note that if the City landfill **officially** closes (requires all State requirement to be met) and does not discover evidence of groundwater contamination during the six semi-annual sampling episodes following closure, the City may request to be allowed to discontinue monitoring.

The past delays in dealing with the City's solid waste facilities has created the current situation of tight time frames and quickly approaching deadlines for a number of issues discussed in this letter. If you have any questions or if I may be of assistance in these matters do not hesitate to contact me. This is especially important that communication be instituted by the City concerning the deadlines stated in this letter should problems arise.

Sincerely,



James Wilbur
Environmental Specialist IV

cc: Chuck Rogers, Mayor, City of Laurel, P.O. Box 10, Laurel, MT 59044
Dr. George Sheckleton, Yellowstone Co. Health Officer, City County Health
Department, P.O. Box 35033, Billings, MT 59107
Kevin Chappell, Surface Management Bureau, Department of State Lands, 1625
Eleventh Ave, Helena, MT 59620

path: jamesw/sw/ltrs.92/laurel.506
file Yellowstone Co./Laurel transfer station (#301) & Laurel landfill (#203)/licensing

City of Laurel

LAUREL, MONTANA 59044

P.O. BOX 10
PHONE: 628-8791

CITY COUNCIL

DEPARTMENT

August 7, 1992

James Wilbur
Environmental Specialist IV
Solid and Hazardous Waste Bureau
Montana Department of Health and Environmental Sciences
Cogswell Building
Helena, MT 59602

Dear Mr. Wilbur:

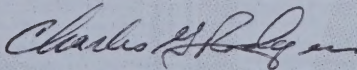
As a followon to our recent conversation and that between you and Mr. Cumin, we would like to request an extension of the deadline for submittal of the work plan for closure of landfill license #203 to September 16, 1992. Jim Worthington, our City Engineer and the person most knowledgeable about Laurel's solid waste issues, is presently in the hospital after suffering two strokes, and we are presently scrambling to become informed on all the issues involved.

September 16 is the day following our City Council meeting which will allow us to officially act on issues we need to address in the interim.

Our garbage committee met last night and agreed to immediately contract with GeoResearch for the hydrogeologic study and the closure plan. We are not up to speed on the issues involved in the transfer station, a possible Class III request, recycling, and so forth but plan to address these concerns in the extension period.

Thank you for your patience.

Sincerely,



Chuck Rogers
Mayor

CC:ljn

RECEIVED

AUG 10 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID AND HAZARDOUS WASTE BUREAU

City of Laurel

P.O. BOX 10

LAUREL, MONTANA 59044



CERTIFIED

P 075 591 677

MAIL

RETURN RECEIPT REQUESTED

James Wilbur
Environmental Specialist IV
Solid and Hazardous Waste Bureau
Montana Dept. of Health & Environmental Sciences
Cogswell Building
Helena, Mt. 59602



**RETURN RECEIPT
REQUESTED**

Thank you for using
Return Receipt Service.

Is your RETURN ADDRESS
completed on the reverse side?

City of Laurel

LAUREL, MONTANA 59044

June 29, 1992

P.O. BOX 10
PHONE: 628-8791

PUBLIC WORKS
DEPARTMENT

RECEIVED

JUN 30 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENTISTS
SOLID AND HAZARDOUS WASTE DIVISION

James Wilburn
Environmental Specialist IV
Solid and Hazardous Waste Bureau
Dept. of Health and Environmental Sciences
State of Montana
Cogswell Building
Helena, Mt. 59620

Subject: Interim Transfer Station License Extension

Dear Mr. Wilbur:

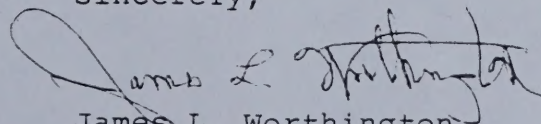
In accordance with item #3 of your letter dated May 6, 1992, the City of Laurel hereby formally requests an extension of the term of license for the interim transfer station (license #301). We accept the requirements set forth in items #1 and #2 of said referenced letter.

We have received a proposal from GEO Research, Inc., to assist in preparing a closure plan for the old City of Laurel Class II Landfill, License #203. It is anticipated that a contract will be accepted in the near future. We are also reviewing the InterCap and the Public Works Money Database programs for financial assistance for funding of the closure and transfer site projects.

From January 1, 1991 to December 31, 1991 we disposed of 500 cubic yards of wastes at the City of Laurel Landfill. This consisted basically of old shingles that piled up from our extensive re-roofing of roofs damaged during the previous years hail storm. Your solid waste inspector suggested that instead of placing them in our 40 yard containers and hauling them to the Billings Landfill that we place them in the Laurel Landfill.

I will report to you all activities that occur, as they occur, and our plans to meet the requirements you have established.

Sincerely,



James L. Worthington
Director of Public Works

JLW/cl



DEPARTMENT OF HEALTH AND
ENVIRONMENTAL SCIENCES

— STATE OF MONTANA —

COGSWELL BUILDING
HELENA, MT 59620

City of Laurel Landfill
Maps (1979 - 1982)

10,000 E

10,500 E

14,000 N

13,500 N

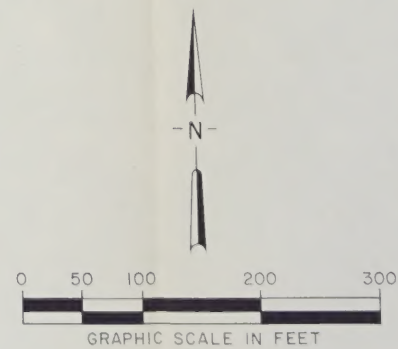
13,000 N



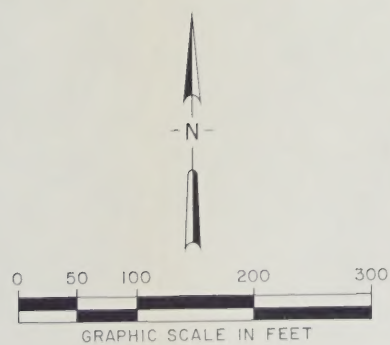
LEGEND

	PAVED ROAD		TREES
	IMPROVED ROAD		DRAINAGE
	TRAIL		POND
	BRIDGE		SWAMP
	CATTLE GUARD		INDEX CONTOUR
	CULVERT		INTERMEDIATE CONTOUR
	FENCE		DEPRESSION CONTOUR
	RAILROAD		BUILDING
	POWER POLE		DEPTH OF SUBSIDENCE
	APPROX. BNDRY. C of S 2129		

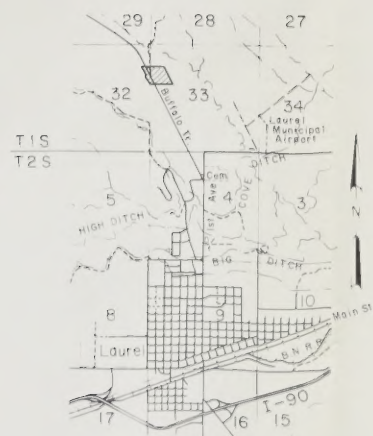
Prepared From Aerial Photography 1:12,000
 Nov. 15, 1979. Vertical Datum Based On
 City of Laurel Bench Mark 3/6-32-2; R.R.
 Spike In Power Pole North Of Curve In
 Airport Road Near The N₁ Cor. Sec. 4,
 T.2S., R.25E. Topography Prepared To
 Meet 4' CI Accuracy Standards. Control
 Surveys Conducted May 12, 1982.
 Associated Surveys, Inc., Billings, Mt.



Scale: 1"=100'

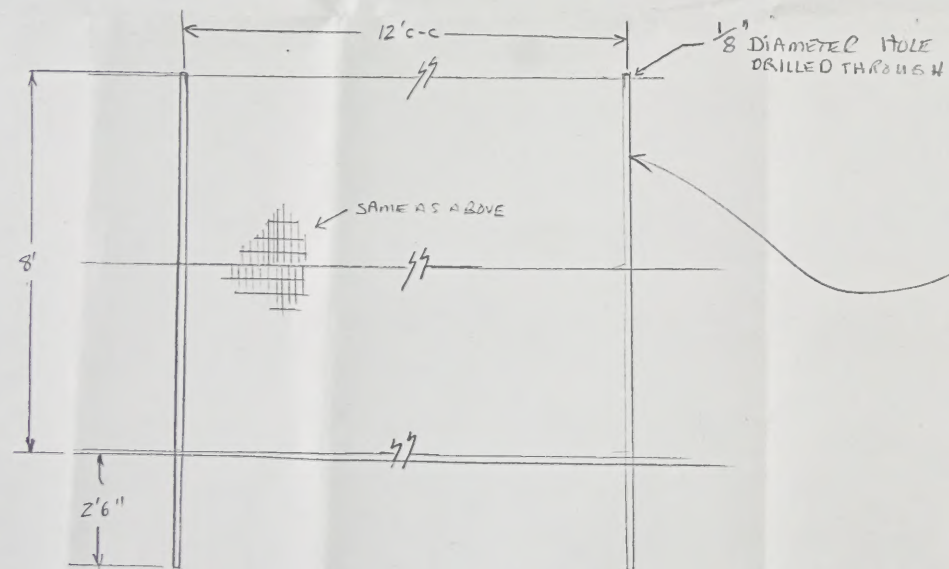
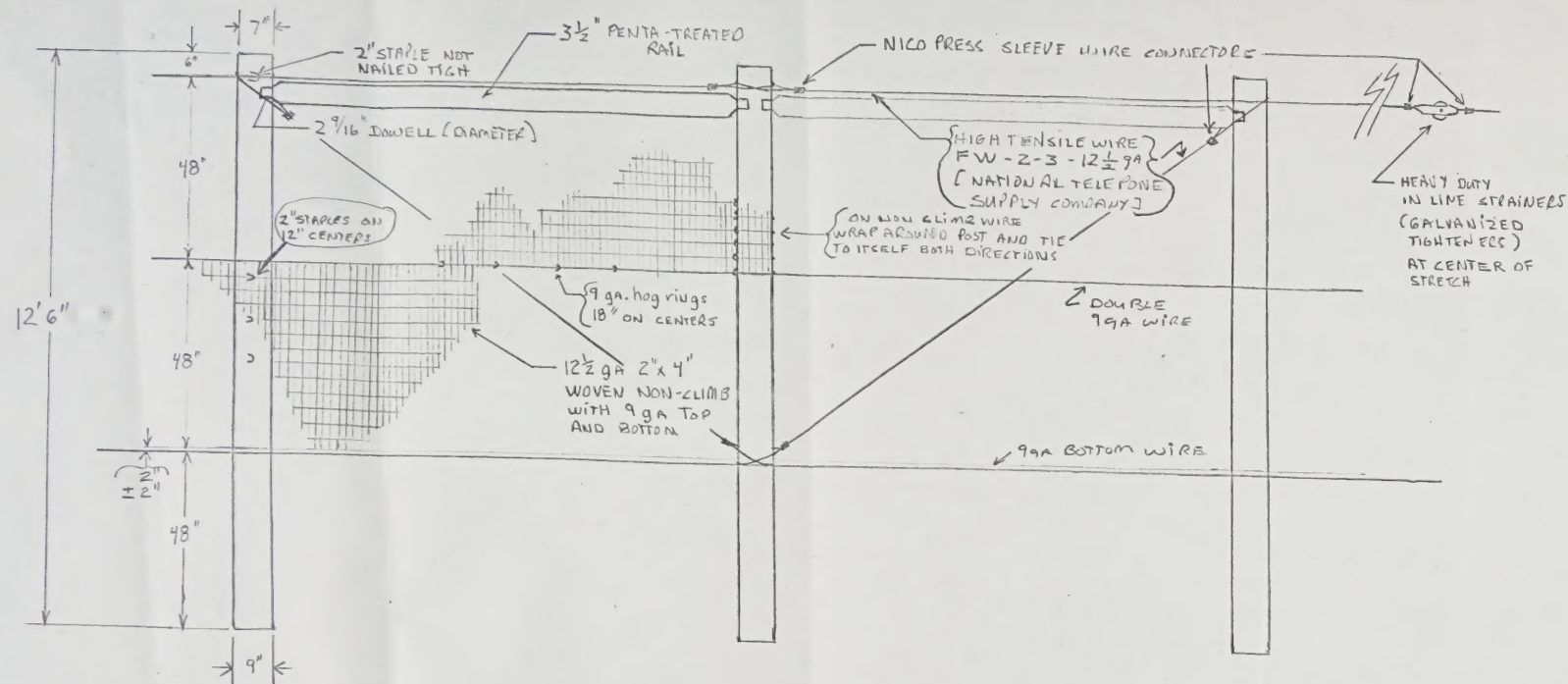


Scale: 1"=100'



TOPOGRAPHIC MAP PREPARED BY
PHOTOGRAMMETRIC METHODS
CITY OF LAUREL
LANDFILL SITE
N.W. 1/4, SEC. 33 - T1S, R24E
YELLOWSTONE COUNTY, MONTANA

ASSOCIATED SURVEYS INC.
land & aerial
BILLINGS, MONTANA

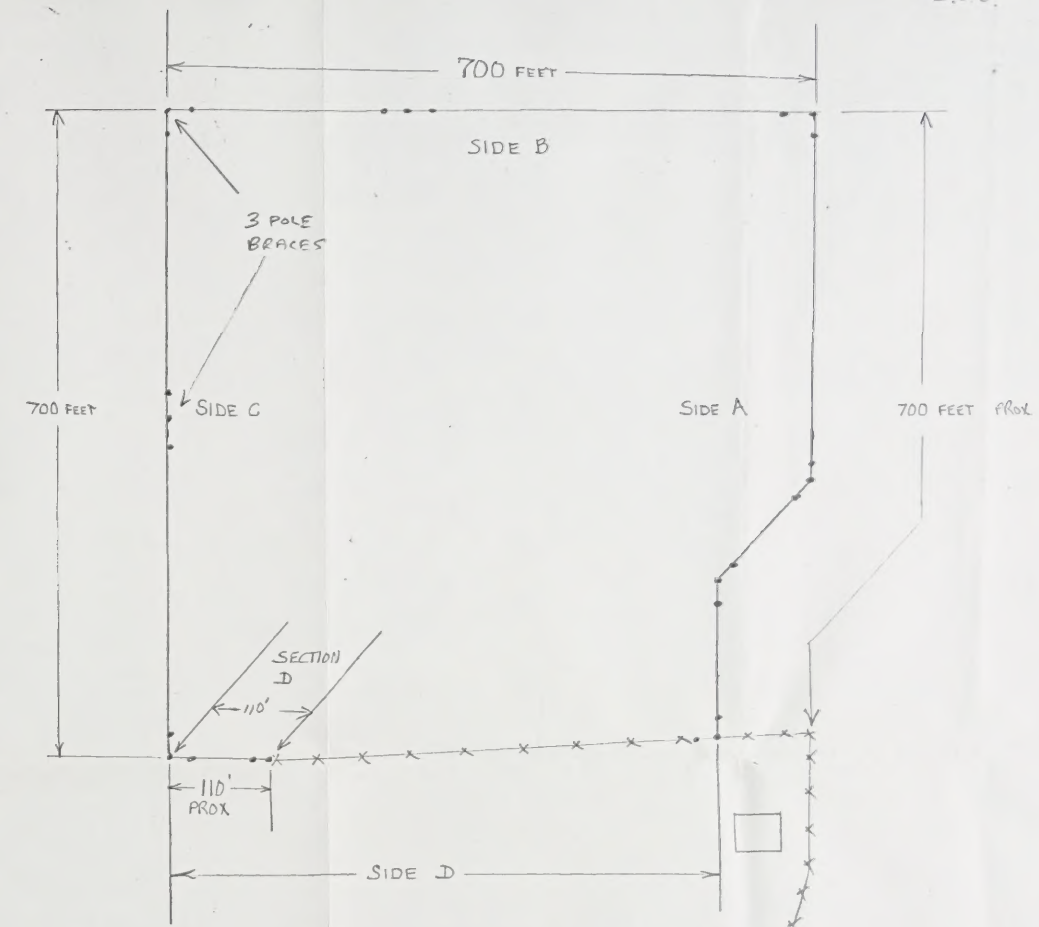


SPECIFICATIONS

HIGH TENSILE TO P WIRE:
 NORMAL DIAMETER 12 1/2 GA .099 INCHES
 CLASS III OR BETTER GALVANIZING
 .80 ZINC PER SQ FT OF WIRE SURFACE
 MINIMUM BREAKING STRENGTH 170,000
 LBS PER SQ IN. AND 1308 PULL STRENGTH

LINE POSTS
 1" DIAMETER PULL TRNDED HIGH DENSITY
 SOLID FIBERGLASS ROD
 MINIMUM WEIGHT 600 LBS PER 1000 FEET

CITY OF LAUREL
 LAND FILL



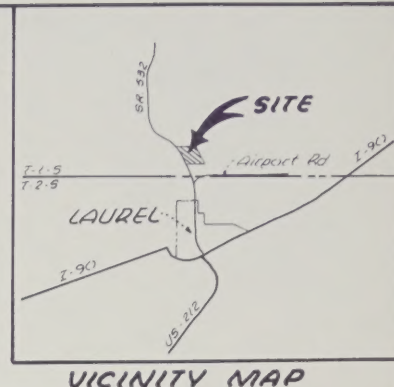
3-8-22
 D.B.S.

CERTIFICATE OF SURVEY NO. _____
SITUATED IN THE NW 1/4 OF SECTION 33 T.15, R.24 E., P.M.M.
YELLOWSTONE COUNTY, MONTANA

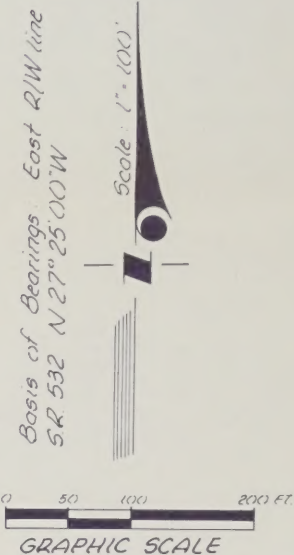
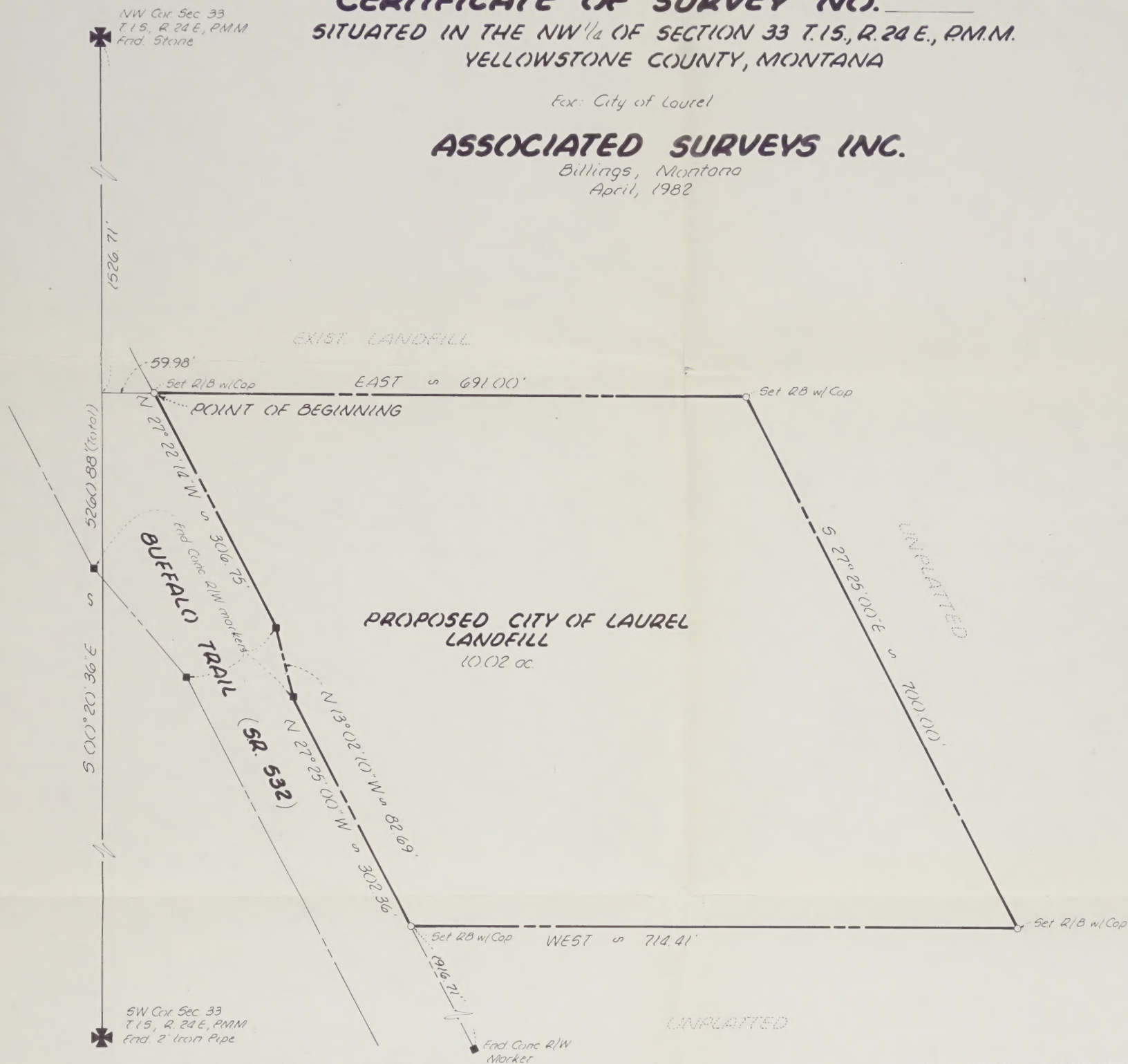
For: City of Laurel

ASSOCIATED SURVEYS INC.

Billings, Montana
 April, 1982



VICINITY MAP



CERTIFICATE OF SURVEY

OWNERS CERTIFICATE

STATE OF MONTANA } SS
 County of Yellowstone

William Condrey, a Montana Registered Land Surveyor No 5425-5 being first duly sworn deposes and says that during the month of April, 1982 a survey was made under my supervision of a certain tract of land situated in the NW 1/4 of Section 33, T.15, R.24 E., P.M.M. Yellowstone County, Montana, said tract being more particularly described as follows:

Commencing at the NW corner Section 33, thence along the West line of said section 33, S 00°20'36"E a distance of 1,526.71 feet, thence East a distance of 59.98 feet to the **POINT OF BEGINNING**, being the SW corner of the existing Laurel Landfill said point being on the east R/W of SR 532, thence East along the south line of the existing Laurel Landfill a distance of 691.00 feet, thence S 27°25'00"E a distance of 700.00 feet, thence West a distance of 714.41 feet to a point on the east R/W of said SR 532, thence along said east R/W, N 27°25'00"W a distance of 302.36 feet to a concrete R/W marker, thence along said east R/W N 13°02'10"W a distance of 82.69 feet to a concrete R/W marker, thence along said east R/W N 27°22'14"W a distance of 306.75 to the **POINT OF BEGINNING**, containing 10.02 acres more or less. Together with and subject to all easements of record if any.

This survey was made at the request of the owner, and is in conformance with the laws of the State of Montana, and the corners were monumented as shown on the plat and the plat conforms to the work on the ground.

WILLIAM CONDREY Mt. Reg. No. 5425-5

STATE OF MONTANA } SS
 County of Yellowstone

Subscribed and sworn to before me a Notary Public in and for the State of Montana this _____ day of _____ 1982.

Notary Public in and for the State of Montana
 Residing at: _____
 My Commission Expires _____

I hereby certify that the purpose for this division of land is to create a parcel to be used for Landfill purposes and no structures requiring water or sewage disposal will be erected on the parcel so created; therefore, this division of land is exempt from review by the Department of Health and Environmental Sciences pursuant to Title 16 Chapter 16 Subchapter 6.05 (2)(f). Any change in land use subjects this division of land to review under the provisions of the Sanitation in Subdivision act.

STATE OF MONTANA } SS
 County of Yellowstone

I hereby certify that the annexed Certificate of Survey was filed for record in my office on this _____ day of _____ 1982, at _____ o'clock _____ M.

CLERK & RECORDER Yellowstone Co, Montana.

Laurel Landfill
wells on high and low side instead of
backhoe pits in trenches
use wells for monitoring in future

Jim Thirand
Laurel City Engineer



32K-75W
7½ X 10½

File: Yellowstone Co. / Laurel Landfill
under:

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO: Proof *LL*

DATE: *10/28/91*

1. *Jim W* *JW*

2. *Patti P.* *PP*

Duane P. DPC

3. *Roger T.* *RT*

☒ Approval

☒ Comment

☐ Necessary Action

☐ Note and Return

☐ Note and File

☐ Investigate

☐ Prepare reply

☐ Signature

☐ See Me

☐ As requested

☐ For your information

☐ Per Conversation

REMARKS:

wp / fee.91 / Laurel . C10

Sent 11/5/91

FROM:

Lana D.

111-10-10

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Solid & Hazardous Waste Bureau
Telephone (406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

November 5, 1991

Dave Michael
Asst. Public Works Director
Public Works Department
City of Laurel
P.O. Box 10,
Laurel, Montana 59620

RE: LICENSE FEE FOR CITY OF LAUREL'S LANDFILL

Dear Mr. Michael:

The Department has determined that the City of Laurel's Class II Landfill, License #203, has not met final closure requirements, as evidenced by the lack of a closure plan and by information conveyed by Department staff members. Based on the Administrative Rules of Montana (ARM) 16.14.521(2a), there are certain requirements necessary in order to close a Class II landfill. Enclosed you will find copies of the Class II Landfill Closure Requirements, Landfill Closure Review Sequence, Monitoring Well Construction and Development Form, and draft Groundwater Monitoring Rules that have to be addressed.

Since the Department does not consider the closure requirements fulfilled for the Class II landfill, the license is still valid. Therefore, the Department is assessing the City of Laurel for the applicable fees, as stated in the Departmental fee notice dated October 18, 1991. Mr. Jim Worthington, Director of Public Works, was notified in 1990 as to what was required in order to officially close the landfill in order to avoid the annual licensing fee.

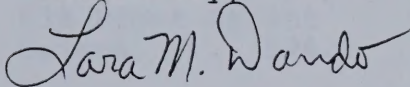
Upon completion of all closure requirements, which include proper final soil cover, and Department approved closure plans, positive drainage control plans, and groundwater monitoring plans, the Department should be notified immediately, so that closure can be verified through an inspection. Upon official closure of the site, the Department will not require payment of the remaining quarterly fee assessments. However, until the landfill is

Page Two
City of Laurel
November 5, 1991

officially closed, the City will be liable for quarterly payments of the assessed fee.

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,



Lara M. Dando
Solid Waste Program

encls: Class II Landfill Closure Requirements, Closure Review
Sequence, Monitoring Well Construction and Development
Form, Draft Groundwater Monitoring Rules

cc: Ted Kylander, R.S., P.O. Box 35033, Billings, MT 59107
Mayor Bob Gauthier, P.O. Box 10, Laurel, MT 59044
Jim Worthington, Director of Public Works, P.O. Box 10,
Laurel, MT 59044

LMD\lmd

City of Laurel

LAUREL, MONTANA 59044

Sept. 16, 1991

P.O. BOX 10
PHONE: 628-8791

PUBLIC WORKS
DEPARTMENT

Lara Danto
Solid & Hazardous Waste Bureau
Dept. of Health & Environmental Sciences
836 Front Street
Helena, Mt. 59620

*Lara - mid
pls this.
me m
pt.*
RECEIVED
SEP 1 1991

Montana Department of Health
and Environmental Sciences
Solid and Hazardous Waste Bureau

Dear Lara:

The City of Laurel's Landfill was closed in September of 1990 and the Transfer site was opened. From October 1990 through June of 1991 the City handled 101 loads or 4040 yards of trash (each container holds 40 cubic yards) to the Billings Landfill from the Transfer site.

Our projected loads for July 1991 through June 1992 will be approximately 290 loads or 11,600 cubic yards. The information about the loads for FY 91-92 estimation was made from our dumping records at the Billings Landfill.

Sincerely,

Dave Michael

Dave Michael
Asst. Public Works Director

cc: Mayor
Jim Worthington

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

DATE:

1.

2.

3.

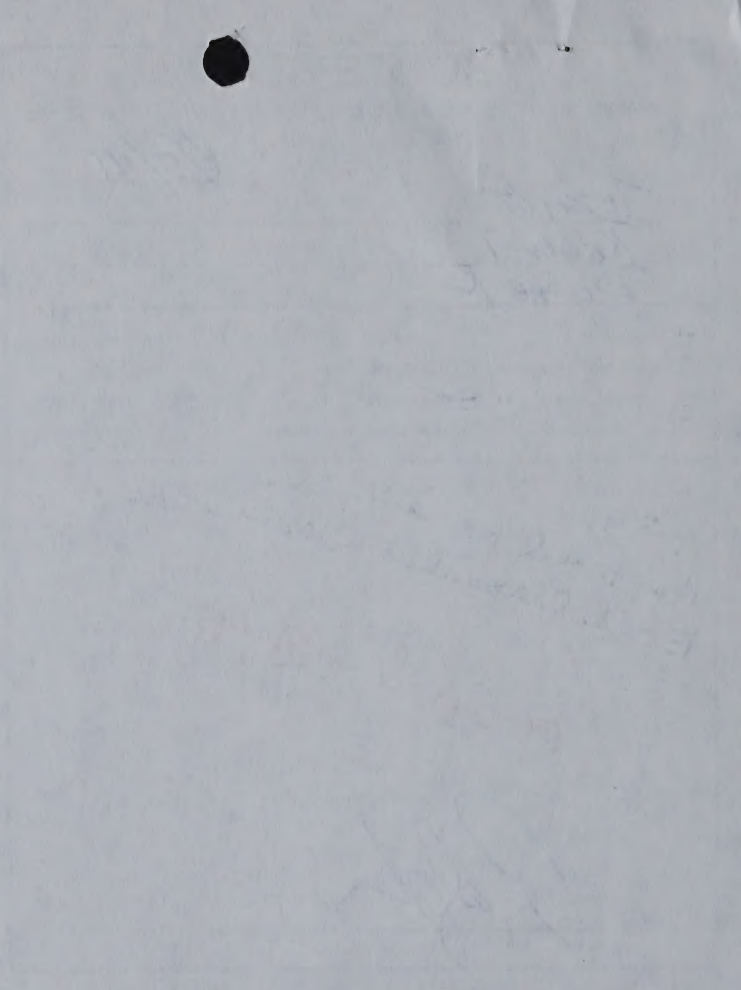
- | | | |
|--|---|---|
| ☒ Approval | ☐ Comment | ☐ Necessary Action |
| ☐ Note and Return | ☐ Note and File | ☐ Investigate |
| ☐ Prepare reply | ☒ Signature | ☐ See Me |
| ☐ As requested | ☐ For your information | ☐ Per Conversation |

REMARKS:

4-8-91
Approved per DM/ll
Encl. class II LF Closure Reg'

mailed 4-8-91

FROM:



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

file
Laurel LF
Yellowstone
Co.



STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499

STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

Solid & Hazardous Waste Bureau
Telephone: (406) 444-1430

April 4, 1991

City of Laurel Landfill
City of Laurel
Box 6
Laurel, MT 59044

To Whom it May Concern:

This letter contains the "Closure Guidance Policy" which defines the Class II landfill closure requirements and recommendations being promulgated by the DHES-Solid Waste Program. Groundwater monitoring systems are required for Class II landfills which served a geographic population of 5,000 people or more and that accepted household waste at any time after October 1, 1989. Groundwater monitoring is required for landfills that meet these criteria even if the landfill closes before Federal Environmental Protection Agency (EPA) "Subtitle-D" requirements take effect. This is a provision of the "Montana Solid Waste Management Act", Section 75-10-207, MCA. If you would like a copy of the "Draft Groundwater Monitoring Rules" which define these potential additional closure requirements, please don't hesitate to contact this office for this information.

The "Closure Guidance Policy" should be self-explanatory but if you have any questions or concerns, or if I may be of additional service, please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Ralph N. Smith".

Ralph N. Smith
Environmental Specialist
Solid Waste Program

Enclosure

RNS/rns

Yellowstone

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES



STAN STEPHENS, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

FAX # (406) 444-2606

HELENA, MONTANA 59620

Solid & Hazardous Waste Bureau
Telephone: (406)444-2821

March 15, 1990

Laurel Landfill
City of Laurel
P.O. Box 10
Laurel, MT 59044

Dear Landfill Operator:

I have enclosed a copy of the "Montana Solid Waste Management Act", Section 75-10-201 through 75-10-233 M.C.A. for your reference. You will note that the 1989 Montana Legislature passed certain amendments to the act regarding the **provision of groundwater monitoring systems at landfills**. I have highlighted Section 75-10-207, the section requiring groundwater monitoring at certain municipal solid waste landfills and **other disposal sites**.

Items number three and four of this section require owners and operators of certain landfills to submit site specific hydrogeological information to be prepared by each owner/operator. These sections also require a plan for installation of a groundwater monitoring system as necessary. This information is to be evaluated in order to make a decision whether a particular landfill must have a groundwater monitoring system or not, and when the system will have to be installed.

The act requires that this department develop specific rules for implementation of these requirements, and the department is in the process of developing these rules. You will note, however, that "high" priority landfill sites must have groundwater monitoring installed by January 1, 1991 and lower priority sites by January 1, 1992, so little time is available to accommodate a lengthy rulemaking process and still allow communities to fit these requirements into the annual budget process.

Some landfills already have some form of groundwater monitoring system in place, and these will be considered for adequacy to meet these requirements. It is estimated that only about nine landfills in Montana have systems which will be acceptable. We do not have all the information available for some sites, however, and there may be other systems which are satisfactory. Numerous owners and operators have taken the lead on this issue due to the passage of HB 486 and due to the impending EPA landfill regulations, and many are already well along in development of their hydrogeological report, department approval, installation of wells and groundwater sampling.

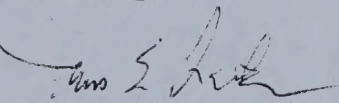
We request that each landfill owner/operator read Section 75-10-207 carefully to see if his/her landfill meets the population requirements. If your landfill is included in this requirement, we request that you begin to obtain the hydrogeological information necessary for us to make the determination whether monitoring is necessary and when the monitoring will be required. In most cases, you will find it economically advantageous to have your hydrogeological assessment and groundwater well installation completed under the same contract with the same consultant, and we would encourage you to proceed with development of a monitoring system immediately in order to gather as much information as you can about the impact of your landfill prior to the time when the new "Subtitle D" regulations are effective. We do request that plans for monitoring be submitted to this agency for review prior to installation, however, to insure that the system will meet our requirements.

You will also note that the section addresses "municipal solid waste landfills and **"other disposal sites that at any time accepted household waste."** Some facilities will fall under this requirement even though they may be accepting only "Group III" wastes such as tree limbs, brush or demolition waste. If owners or operators of these sites ever accepted household waste in the past and the sites were open as of October 1, 1989, they will still have to prepare the hydrogeological assessment. The department will endeavor to interpret the actual monitoring requirements based upon a reasonable waste history, however.

In general, most landfill owners/operators will need to secure the services of a qualified geologist, hydrogeologist or geo-technical engineer to prepare the assessment of their sites. We have copies of a consultant list in our office which includes the majority of consulting firms who do business of this kind in Montana, and I would be happy to make this available to you upon request.

If you have any questions, or if I may be of additional service, please contact me.

Sincerely,



James E. Leiter, R.S.
Solid Waste Program Manager

7/1/88

Hole #1 (north) 9 ft to H_2O (12 ft deep)

Hole #2 10 ft to H_2O (11 ft deep)

5/1/52

DEPARTMENT OF STATE LANDS



TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

(406) 444-2074

1625 11TH AVENUE
HELENA, MONTANA 59620

Mayor Albert Ehrlik
City of Laurel
Box 10
Laurel, MT 59044

December 2, 1985

RE: Laurel Landfill
Section 33, T1S, R24E

Dear Mayor Ehrlik:

I am writing to you regarding the status of reclamation problems that have arisen on State lands utilized for a landfill site by the City of Laurel.

On September 30, 1985, I wrote to the Laurel City Commission regarding our concerns on the landfill site. A copy of that letter is enclosed. I have not received a response from the City Commission as to what the City intends to do to meet the stipulations in the easement. I would appreciate any help that you could provide in getting a response to our concerns.

If you or the City Commission have questions, I would appreciate your contacting Don Kendall, Area Manager, of our Southern Area Land Office in Billings at 259-3264.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kelly Blake".

Kelly Blake, Administrator
Lands Division

cc: Reed Lommen, Land Management Bureau
Don Kendall, Southern Land Office
Duane Robertson, Solid Waste Management Bureau, Department of Health

jd

Enclosure

RECEIVED

DEC 03 1985

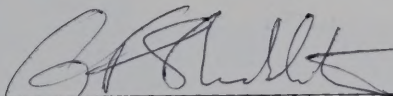
**MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU**

(Laurel)

License forwarded to licensee:

8/5/82

(date)

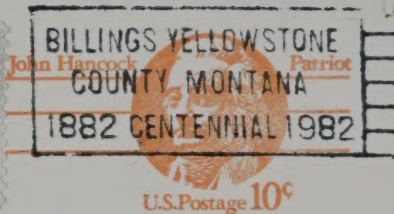
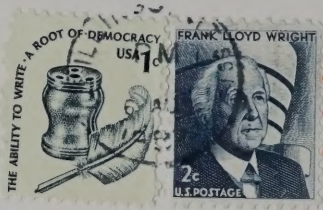


Health Officer Signature

RECEIVED

AUG 9 1982

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION



Solid Waste Mgmt. Bureau
Dept. of Health
Room A-201
Cogswell Bldg.
Helena, MT 59620

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
ENVIRONMENTAL SCIENCES DIVISION
LICENSE TO OPERATE A SOLID WASTE MANAGEMENT SYSTEM



LICENSE NUMBER: 203

DATE: AUGUST 4, 1982

This license authorizes the licensee to operate a: ☒ landfill disposal site, ☐ transfer station, ☐ container program, ☐ resource recovery facility, ☐ other _____, located in the NW 1/4 Section 33 Township 1S Range 24E, YELLOWSTONE County, serving the following area _____
LAUREL AND VICINITY (10.02 ACRE EXTENSION)

This license is issued in compliance with Section 69-4004, R.C.M., 1947.

Application for this license has been made in due form by:

Licensee:

CITY OF LAUREL

Address:

P. O. Box 10
LAUREL, MT 59044

Site classification: II ☐ Conditional ☒ Permanent

Conditions of license: MAY ACCEPT GROUP II AND III WASTES ONLY; MAY NOT ACCEPT SEPTIC TANK PUMPINGS OR OTHER SEMI-LIQUID WASTES.

HEALTH OFFICER*

**License must be validated by health officer before it is effective.*

DUANE L. ROBERTSON, CHIEF
Solid Waste Management Bureau
Environmental Sciences Division

THIS LICENSE IS NOT TRANSFERABLE TO ANOTHER LICENSEE OR LOCATION

CERTIFICATION OF PUBLICATION

THIS FORM MUST BE EXECUTED IN

TRIPPLICATE

I hereby certify that I have read Sec. 82-1149 to 82-1153, as amended (1969) inclusive, Revised Codes of Montana 1947 and subsequent revisions, and declare that the price or rate charged the State of Montana for the publication for which claim is made in the attached papers in the amount of \$ 10.80 is not in excess of the minimum rate charged any other advertiser for publication or advertisement.

I further certify that this claim is correct and just in all respects, and that payment or credit has not been received.

DATE 7/9/82

PAYEE The Billings Gazette

Corporation or Company

By Danella Sinstbuen TITLE Legals Clerk

Signature

(Above certification need not be verified by affidavit)

PUBLIC NOTICE
An application for the licensing of a solid waste management system has been submitted to the Montana Department of Health and Environmental Sciences, Solid Waste Management Bureau, for processing. The name and address of the applicant follows:
City of Laurel
P.O. Box 30
Laurel, MT 59044
The solid waste management system is located in the NW 1/4 of Section 33, Township 15 Range 24E, Yellowstone County, and serves the following areas(s): Laurel and vicinity.
The application has been reviewed by the department and has been found to be complete. The proposed decision of the department is to:
☒ License
☐ Conditionally license
☐ Deny licensing the proposed solid waste management system.
The purpose of this notice is to inform the public of the proposed decision of the department and to seek their participation in the decision-making process. Pursuant to the Administrative Rules of Montana (ARM), Rule 16.14.511 (4), a thirty-day period from the date of this notice will be given for the public to submit written comments to the department concerning the license application. All comments should be addressed to the Solid Waste Management Bureau, Cooswell Building, Room A201, Helena, Montana 59620. Interested persons may obtain copies of the completed application upon request by enclosing the copying cost of \$1.00.
Dated this 1st day of July, 1982.
7/9/82

NOTE TO PUBLISHER: For billing to any State of Montana Division, basis of folio measure is to be on a word count of 100 words or any fraction thereof:

(i.e, 299 words = 3 folio, 301 words = 4 folio etc.) . . . with heading, dates of publication, signature and title included in word count.)

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

July 1, 1982

Richard J. Wesnick, Editor
Billings Gazette
P. O. Box 2507
Billings, MT 59103

Re: Laurel Class II Landfill Expansion

Dear Mr. Wesnick;

State law requires that all solid waste management systems in Montana be approved and licensed by the Montana Department of Health and Environmental Sciences. I am enclosing a public notice pertaining to the application for the licensing of a solid waste management system in your area. This notice is currently being circulated for thirty (30) days in order to assure public knowledge of the proposed action. We request that the enclosed notice be published as a legal notice in your newspaper as soon as possible. We are making every effort possible to generate public knowledge and interest in this licensing action.

Please submit billing in the prescribed manner to the Department of Health and Environmental Sciences, Management Services Bureau, Cogswell Building, Room C123, Helena, Montana 59620. We request that this notice be run one time only. Please include at least one original copy of the notice with the bill.

Sincerely,

A handwritten signature in cursive script that reads "Duane L. Robertson".

DUANE L. ROBERTSON, CHIEF
Solid Waste Management Bureau
Environmental Sciences Division

DLR:vc
Encls.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
SOLID WASTE MANAGEMENT BUREAU



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING, ROOM A201

STATE OF MONTANA

(406) 449-2821

HELENA, MONTANA 59620

PUBLIC NOTICE

An application for the licensing of a solid waste management system has been submitted to the Montana Department of Health and Environmental Sciences, Solid Waste Management Bureau, for processing. The name and address of the applicant follows:

City of Laurel
P. O. Box 10
Laurel, MT 59044

The solid waste management system is located in the NW 1/4 of Section 33 Township 1S Range 24E, Yellowstone County, and serves the following area(s): Laure and vicinity.

The application has been reviewed by the department and has been found to be complete. The proposed decision of the department is to:

☒ XXX

License

☐

Conditionally license

☐

Deny licensing the proposed solid waste management system.

The purpose of this notice is to inform the public of the proposed decision of the department and to seek their participation in the decision-making process. Pursuant to the Administrative Rules of Montana (ARM), Rule 16.14.511 (4), a thirty-day period from the date of this notice will be given for the public to submit written comments to the department concerning the license application. All comments should be addressed to the Solid Waste Management Bureau, Cogswell Building, Room A201, Helena, Montana 59620. Interested persons may obtain copies of the completed application upon request by enclosing the copying cost of \$1.00.

Dated this 1st day of July, 19 82.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
SOLID WASTE MANAGEMENT BUREAU



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING, ROOM A201

STATE OF MONTANA

(406) 449-2821

HELENA, MONTANA 59620

July 1, 1982

George Sheckleton, M.D.
Courthouse, Room 205
Billings, MT 59101

Re: Laurel Class II Landfill expansion

Dear Dr. Sheckleton;

This correspondence will serve as notice that the Montana Department of Health and Environmental Sciences has received a completed application for the following solid waste management system: Laurel Class II landfill expansion. This notification is in compliance with the Administrative Rules of Montana (ARM), Rule 16.14.511(2).

In addition, please find enclosed three public notices. Pursuant to ARM Rule 16.14.511(3), the local health officer must post one public notice at the nearest post office and two other public buildings serving the geographical area of the proposed solid waste management system.

A copy of this public notice has been sent to the applicant and the area newspaper.

If you should have any questions, please contact this office.

Sincerely,

A handwritten signature in dark ink, appearing to read "John C. Geach".

JOHN C. GEACH
Solid Waste Management Bureau
Environmental Sciences Division

JCG:vc
Encls.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

SOLID WASTE MANAGEMENT BUREAU

Room A201
COGSWELL BUILDING

TED SCHWINDEN, GOVERNOR



STATE OF MONTANA

(406) 494-2821

HELENA, MONTANA 59620

July 1, 1982

Board of County Commissioners, Yellowstone County Courthouse, Billings, MT
James Neely, Sanitarian, Courthouse, Room 309, Billings, MT 59101
George Freeman, City-County Planning Director, P. O. Box 1178, Billings, MT
Albert Ehrlick, Mayor of Laurel, P. O. Box 10, Laurel, MT 59044
Environmental Quality Council, State Capitol Bldg., Room 432, Helena, MT
Tom Ellerhoff, Environmental Sciences Division, DHES, Helena, MT
Montana State Library, Harold Chambers, 930 E. Lyndale, Helena, MT

Gentlemen;

Pursuant to the Administrative Rules of Montana, Section 16-2.2(2)-P2030, Rule IV, the following Preliminary Environmental Review has been prepared by the Department of Health and Environmental Sciences concerning the Laurel Class II landfill expansion.

The purpose of the Preliminary Environmental Review is to inform all interested governmental agencies, public groups or individuals of the proposed action and to determine whether or not the action may have a significant effect on the human environment. This Preliminary Environmental Review will be circulated for a period of fifteen (15) days at which time a decision will be made as to our future action.

If you care to comment on this proposed action, please do so within the allotted time.

Sincerely,

A handwritten signature in cursive script, reading "John C. Geach".

JOHN C. GEACH
Solid Waste Management Bureau
Environmental Sciences Division

JCG:vc
Encls.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Cogswell Building, Helena, Montana 59601
(406)449-3946

PRELIMINARY ENVIRONMENTAL REVIEW

Division/Bureau Environmental Sciences Division/Solid Waste Management Bureau

Project or Application Laurel City landfill expansion

Description of Project The City of Laurel wishes to expand their present landfill
to include a 10.02 acre parcel which lies immediately adjacent and southeast
of the present site.

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Terrestrial & aquatic life and habitats				X		
2. Water quality, quantity and distribution				X		X
3. Geology & soil quality, stability and moisture			X			X
4. Vegetation cover, quantity and quality			X			X
5. Aesthetics				X		
6. Air quality				X		
7. Unique, endangered, fragile, or limited environmental resources				X		
8. Demands on environmental resources of land, water, air & energy			X			X
9. Historical and archaeological sites				X		

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Social structures and mores				X		
2. Cultural uniqueness and diversity				X		
3. Local and state tax base & tax revenue				X		
4. Agricultural or industrial production			X			X
5. Human health				X		
6. Quantity and distribution of community and personal income				X		
7. Access to and quality of recreational and wilderness activities				X		
8. Quantity and distribution of employment				X		
9. Distribution and density of population and housing				X		
10. Demands for government services				X		
11. Industrial & commercial activity				X		
12. Demands for energy				X		
13. Locally adopted environmental plans & goals				X		
14. Transportation networks & traffic flows				X		X

Other groups or agencies contacted or which may have overlapping jurisdiction _____

Individuals or groups contributing to this PER. _____

Recommendation concerning preparation of EIS _____ Not necessary

PER Prepared by: John C. Geach
JOHN C. GEACH

Date: July 1, 1982

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

2. Water quality, quantity and distribution

There is evidence of elevated groundwater levels in portions of the expansion area. State refuse disposal rules require a minimum ten (10) foot soil separation between the bottom of the refuse trench and the groundwater level. The City of Laurel has agreed to using the following procedures to determine the groundwater depth of each trench excavated in the areas:

- (1) A small portion of each new trench will be excavated to the proposed depth using conventional landfill equipment;
- (2) A backhoe will then be used to excavate a small hole to an additional depth of at least ten feet
- (3) If no evidence of groundwater is noted within the ten foot distance the trench excavation can be completed. However, if evidence of groundwater exists within ten feet of the proposed trench bottom, the depth of the trench must be adjusted to provide the minimum separation distance;
- (4) Data from each trench groundwater test must be submitted to and approved by the Solid Waste Management Bureau prior to the use of the trench.

3. Geology and soil quality, stability and moisture

Normal landfill operations modify the soil's moisture and stability within the filled areas. Some minor settling may occur over completed trench areas. However, with proper grading and re-dressing of these areas no serious or long term settling problems will result.

4. Vegetative cover, quantity and quality

The area currently contains native vegetation including sage brush and native grasses. This vegetation will be disturbed during landfilling, however, this disturbance will be short term and these plant species should quickly re-establish on the filled portions of the site.

8. Demands on environment resources of land, water, air and energy

Petroleum fuels will be expended by landfill equipment at this site. Since this is an expansion of the presently operated site additional equipment should not be needed. Therefore there should not be an increase in the current energy consumption rate.

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

4. Agricultural or industrial production

The expansion area could be used for limited cattle grazing. The use of this area for landfill will remove this grazing capability for a short term period.

14. Transportation network and traffic flows

Since this expansion area is adjacent to the existing landfill and will be served by the present roads in the area, no additional transportation problems or increases in traffic flows are anticipated.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
SOLID WASTE MANAGEMENT BUREAU
HELENA, MONTANA

TELEPHONE LOG

PHONE CALL ~~TO~~/FROM: John McMartin (Consultant for Laurel City Landfill)

PERSON ~~MAKING~~/RECEIVING CALL: Vic Andersen

DATE: June 4, 1982

SUBJECT: Laurel landfill expansion

I recently discussed the potential for high groundwater in the proposed expansion area. After a lengthy discussion of the alternatives to core drilling the site to identify the water table I told him we could write a condition on the license that would require the city to test each time they started a trench. This would be done by starting a trench, digging down to the maximum trench bottom depth and then taking a backhoe and digging down an additional 10 to 15 feet to ascertain the presence and elevation of any groundwater. Depending on the results the trench location and/or configuration would then be adjusted to maintain a 10 foot separation between the trench bottom and the water table. This plan will be described in the PER and licensing write-ups.

RECEIVED

MAY 23 1982

RECEIVED
MAY 23 1982
MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
SOLID WASTE MANAGEMENT BUREAU
HELENA, MONTANA

City of Laurel

LAUREL, MONTANA 59044

P.O. BOX 10
PHONE: 628-8791

Planning
DEPARTMENT

May 27, 1982

Mr. Vic Anderson
Solid Waste Management Bureau
Department of Health and Environmental Sciences
Helena, MT 59620

Dear Mr. Anderson:

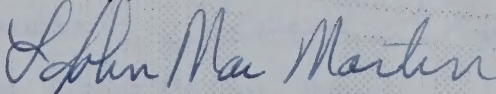
Enclosed please find the following items: application for a Class II solid waste license for the expansion of the Laurel land fill, copy of the Certificate of Survey describing the tract, copy of the topographic map of the site and a copy of the fencing plan for the landfill. The Certificate of Survey was filed in Yellowstone County on May 25, 1982. The City has a right-of-way-deed from the Department of State Lands for said tract; the deed stipulates the site is to be used as a landfill and is Deed Number D-7721.

The fencing plan contains a rough schematic of the land fill site that labels the borders of the landfill as A, B, C, and D. A three strand barb wire fence already exists along side A and as shown on side D. Sides B and C and section D of side D are currently being fenced with the materials shown on the fencing plan.

The City of Laurel intends to implement the current management and operation practices of the existing landfill in this area proposed for expansion. Those management and operation practices are on file with your office.

Thank you for your time and assistance in this matter. If you have any questions, please contact me at tel. 406-245-6144.

Sincerely,



L. John Mac Martin
Planning Advisor

LJMM:es

RECEIVED

MAY 28 1982

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59620

APPLICATION FOR SOLID WASTE MANAGEMENT SYSTEM LICENSE

1. Name of applicant: City of Laurel
Address: P.O. Box 10, Laurel, MT 59044
Telephone number: 406-245-7627
2. This application is for a: ☒ solid waste disposal site, () container site
(green box and bulk containers), () transfer station, () resource recovery
or processing facility, () other (please specify) _____
3. a) Legal description of facility location: See enclosed copy of the Certificate
of Survey and topographic map.
b) General description of facility location: generally east of State Highway No.532
and south of the existing Laurel Landfill--see enclosed Certificate of Survey
4. If you are not the owner of the premises, give name and address of lessor who holds
title to the property and attach a copy of the lease or rental agreement.
Name: Department of State Lands
Address: Capitol Station, Helena, MT
5. Attachments: a) Map of city or county showing proposed location of facility.
b) Drawing or map of proposed facility showing especially the
type and adequacy of fences for litter control and access
control and location of buildings.
6. I hereby certify that the site of the planned solid waste management system is in
accordance with local government zoning and ordinances (to be signed by appropriate
local government official having knowledge of local zoning ordinances).
Signature: Albert D. Ehilick May 17-1982
Title: Albert Ehilick, Mayor
Of: City of Laurel, Yellowstone County
(city or county)
Date: _____

(cont. on back)

Total acreage in site: .02 Usable acreage: 10.02

Population to be served by solid waste management system: 10,000

Will bridges and roads support loaded vehicles? (x) Yes () No

Is site within 100 year floodplain? () Yes (x) No

Are natural drainages found within the site? (x) Yes () No (If "yes" indicate on map or furnish a topographic map)

Depth to groundwater (attach copies of well logs): No well logs available on site, groundwater found at 30 to 35 feet in the pits in the existing landfill
Distance from public or private water supplies (indicate locations of wells on map):

The nearest known well is 0.9 miles from the proposed landfill in the SE $\frac{1}{4}$ Section 33 at the Laurel Airport.

Are there springs located within one mile of site? () Yes (x) No (If "yes" indicate locations on map) none known

Soil profile to a depth of ten (10) feet below lowest point solid waste will be deposited:

Test pit information not submitted due to the fact that this is an expansion of the existing licensed landfill; also, the site contains the same or similar soils as the existing landfill.

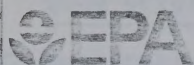
Operation and maintenance plan (please attach; i.e. days and hours site open, access control, equipment used at site, how traffic will be directed and controlled, general description of solid waste management system, maintenance schedule regarding handling and disposal of wastes, provisions for litter control, types of waste to be accepted, proposed use of land after fill area completed, person(s) responsible for operation and maintenance of solid waste management system). Please refer to the Administrative Rules of Montana (ARM), Rules 16.14.520 and 16.14.521, for minimum operation and maintenance requirements.

I certify that the above-described solid waste management system will be constructed and/or operated in accordance with Section 75-10-201 through 75-10-233, Montana Code Annotated (MCA), and the rules adopted pursuant thereto, and in accordance with conditions which have or may be imposed in the license.

Signature: Albert D. Ehlich

Title: Albert Ehlich, Mayor, City of Laurel

Date: May 27-1982


 U.S. ENVIRONMENTAL PROTECTION AGENCY
 OPEN DUMP INVENTORY REPORT

Section I - GENERAL INFORMATION

1. Date of determination Enter month, day, and year	Month 08	Day 20	Year 80
2a. Is this an update of a previous form? Mark (X) one	1 ☐ Yes 2 ☒ No		
2b. Is this form being submitted to remove the facility from the open dump inventory?	1 ☐ Yes 2 ☒ No		
3. Facility Identification Number	State 30	Cnty/City 111	Place 0385
4. EPA Surface Impoundment Assessment No. If applicable	State	Cnty/City	Place
5. State Facility Identification Number If applicable	021		
6. Name of facility	Laurel City Sanitary Landfill		
7. Facility location Street, road, or other location description	3 miles north of Laurel		
	City, town, or place Laurel		
	State MT	ZIP code 59044	
	County name Yellowstone		
8. Coordinates of facility location	Degrees Latitude	Minutes	Seconds Longitude
9. Other legal description If applicable	Range 24E	Township 1S	Section 33
10. Land owner	Name Montana Dept of State Lands		
	Mailing address 1625 11th Ave		
	City, town, or place Helena	State MT	ZIP code 59601
11. Operator	Name City of Laurel		
	Mailing address Box 6		
	City, town, or place Laurel	State MT	ZIP code 59044

Section I - GENERAL INFORMATION - Continued

12. Type of facility Mark (X) one	1 ☒ Landfill	4 ☐ Other - Explain _____
	2 ☐ Surface impoundment	
	3 ☐ Land spreading	
13. Primary types of waste received	1 ☒ Municipal solid waste	6 ☐ Other - Explain _____
	2 ☐ Domestic sewage sludge	
	3 ☐ Industrial solid waste	
	4 ☐ Agricultural solid waste	
	5 ☐ Mining solid waste	

Section II - NONCOMPLIANCE WITH FEDERAL CRITERIA

Indicate noncompliance with one or more of the following categories
Mark (X) each category for which a determination of noncompliance was made.

- | | |
|--|----------|
| 01 ☐ Floodplains | |
| 02 ☐ Endangered species | |
| 03 ☐ Surface water | |
| 04 ☐ Ground water | |
| 05 ☐ Application to food-chain cropland | |
| 06 ☐ Disease | |
| 07 ☐ Air | |
| 08 ☐ Gases | |
| 09 ☐ Fires | |
| 10 ☐ Bird/aircraft hazard | } Safety |
| 11 ☐ Access | |

Section III - RESPONSIBLE STATE OFFICIAL

Name		Telephone	
		Area code	Number
Agency			
Mailing address (Number and street)	City	State	ZIP code

Comments

Site: Lamul County: Yellowstone

Date original application received: 2-14-78

Application complete: Yes _____ No ☒

Missing: _____ name and business address of applicant
_____ legal and general description of the proposed location(s)
_____ total acreage of proposed site
_____ population size and centers to be served by the proposed site
_____ pertinent water quality information
☒ geological and soil information
_____ present uses of adjacent lands
_____ zoning information
_____ maps, drawings, etc., if necessary
_____ name of individual operator
☒ proposed operation and maintenance plan

Date additional information requested: 2-15-78

Ninety (90) day limit date: 5-15-78

Date completed application received: 2-28-78

Fifteen (15) day health officer date: 3-14-78

Health officer notice sent date: 3-3-78

Date proposed decision: 3-2-78

Date public notice sent out: 3-3-78

Thirty (30) day limit date: 4-3-78

Final Decision:

☒ License _____ License conditionally _____ Not license
_____ Date

Date conditional license expires: _____

Explanation of conditions: Group II & III No S.T.P.'s

Date license sent to health officer for signature: 4-6-78

Fifteen (15) day limit date: 4-21-78

[Signature]

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

February 22, 1978

Mr. Richard A. Metzger
Maintenance Director
City of Laurel
Laurel, Montana 59044

Dear Mr. Metzger:

This letter is in response to your license application which was resubmitted.

Information requested regarding soils analysis must be conducted by people with soils expertise. As I stated in my letter, the local Soil Conservation Service in your area has individuals on staff with this expertise and if requested, would no doubt conduct the analysis. Consulting engineers have this expertise and could also be utilized if you so desire.

I regret having to send your application back again, but licensing is on a one-time basis, thus we want to obtain the best data possible.

Thanking you in advance for your cooperation and if you should have questions, feel free to contact me.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/lb

Enclosure

cc: Ed Stow, County Sanitarian, Rooms 310-311, Courthouse, Billings

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 443-5851

February 22, 1978

Mr. Richard A. Metzger
Maintenance Director
City of Laurel
Laurel, Montana 59044

Dear Mr. Metzger:

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Thanking you in advance for your cooperation and if you should have questions, feel free to contact me.

Sincerely,

Paddy R. Truitt, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRV/jb

Enclosure

cc: Ed Stow, County Sanitarian, Rooms 310-311, Courthouse, Billings

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

February 16, 1978

Mr. Richard A. Metzger
Maintenance Director
City of Laurel
Laurel, Montana 59044

Dear Mr. Metzger:

I am in receipt of your application for a solid waste management system license. In reviewing the application, it was found to be incomplete in the following area:

a) Soils analysis

In most cases, local governments have requested the local Soil Conservation Service to conduct the soils analysis. The Soils Conservation Service has capable individuals on staff which, in the past, have been more than willing to provide these services. I would recommend contacting these individuals in hopes of enlisting their expertise.

Please submit the requested information as soon as possible and if I can be of any assistance, feel free to contact me.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/1b

Enclosure

cc: Ed Stow, County Sanitarian, Rooms 310-311, Courthouse, Billings

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

February 16, 1978

Mr. Richard A. Metzger
Maintenance Director
City of Laurel
Laurel, Montana 59044

Dear Mr. Metzger:

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Please submit the requested information as soon as possible and if I can be of any assistance, feel free to contact me.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/vb

Enclosures

cc: Ed Stow, County Sanitarian, Rooms 310-311, Courthouse, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59601

APPLICATION FOR SOLID WASTE MANAGEMENT SYSTEM LICENSE

Name of applicant: City of Laurel

Address: Box 6 Laurel, Montana 59044

Telephone number: 698-8791

This application is for a: (☒) solid waste disposal site, () container site (*green box and bulk containers*), () transfer station, () resource recovery or processing facility, () other (*please specify*) _____

Community of Laurel, County of Yellowstone,
located in NE¹/₄ of NW _____ quarter section of Section 33, Township 1S,
Range 24E.

General description of location: 3 miles N of Laurel

Total acreage in site: 10 Usable acreage: 10

Population to be served by solid waste management system: 8000

Will bridges and roads support loaded vehicles? (☒) Yes () No

Is site subject to flooding? () Yes (☒) No

Are natural drainages found within the site? (☒) Yes () No

Depth to groundwater: unknown

Distance from public or private water supplies: 3 miles

Are there springs located within one (1) mile of site? () Yes (☒) No

(If "yes", describe proximity to site): _____

Soil profile to a depth of ten (10) feet below lowest point solid waste will be deposited (i.e. solid waste disposal sites only):

Clay

Operation and maintenance plan: (please attach - i.e. days and hours site open, access control, equipment used at site, how traffic will be directed and controlled, general description of solid waste management system, maintenance schedule regarding handling and disposal of wastes, provisions for litter control, types of waste to be accepted, proposed use of land after fill area completed, person(s) responsible for operation and maintenance of solid waste management system).

Present use of adjacent land: () residential, () agricultural, (x) other

(If "other", please specify): Grazing land

Does solid waste management system conform to present zoning or other applicable land use plans? (x) Yes () No

I certify that the above-described solid waste management system will be constructed and/or operated in accordance with Section 69-4001 through 69-4009, R.C.M. 1947, and the rules adopted pursuant thereto, and in accordance with conditions which have or may be imposed in the license.

SIGNATURE:

Richard A. Mott

TITLE:

Maintenance Director

DATE:

February 10 - 1978

RECEIVED

FEB 14 1978

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

City of Laurel

LAUREL, MONTANA 59044

P.O. BOX 6
PHONE: 698-4212

February 10, 1978

Garbage
DEPARTMENT

Operation and maintenance plan:

Landfill is open from 9:00 AM thru 3:00 PM. Mondays thru Saturdays.

1 Cat 955 -- Equipment

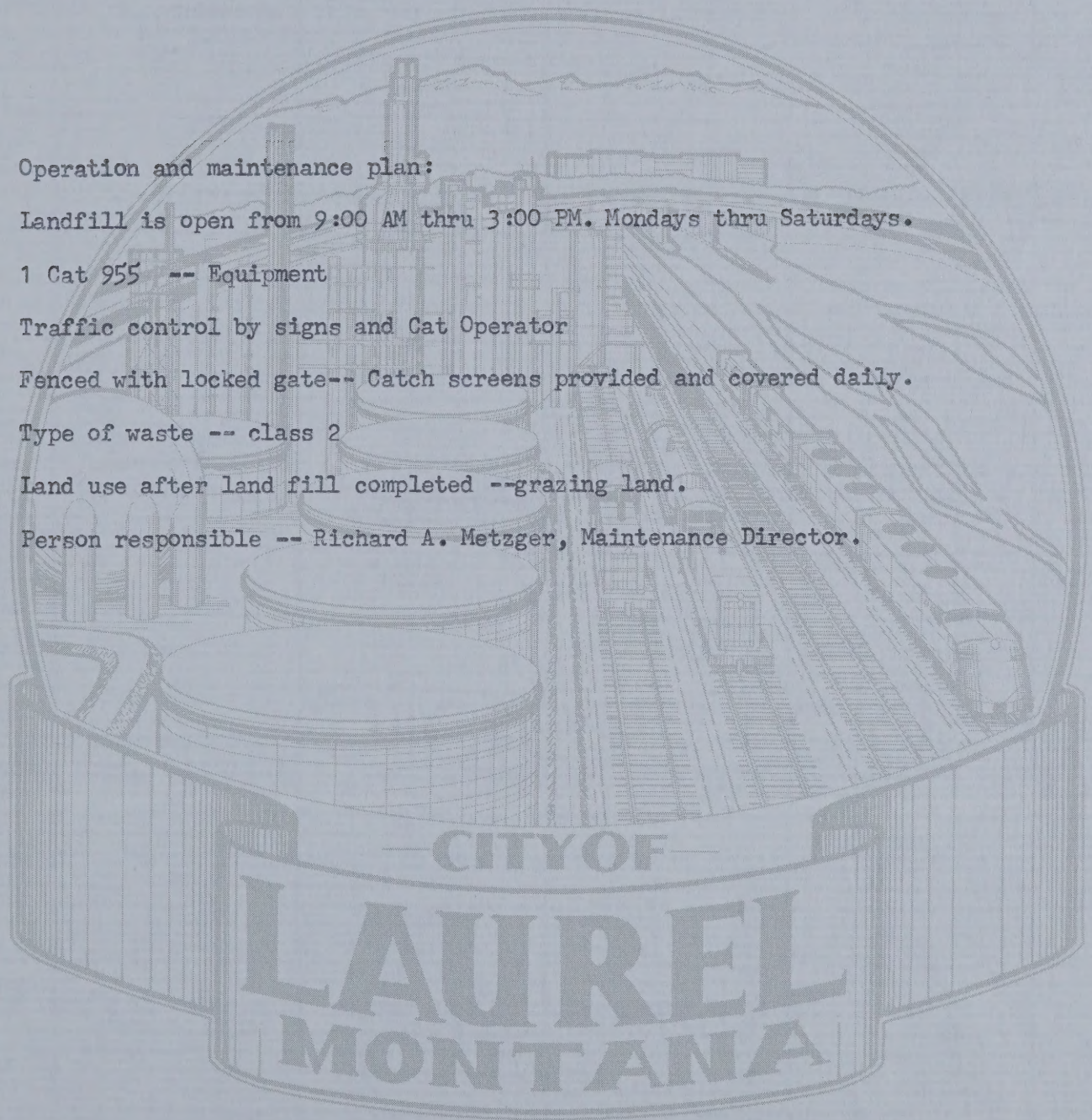
Traffic control by signs and Cat Operator

Fenced with locked gate-- Catch screens provided and covered daily.

Type of waste -- class 2

Land use after land fill completed --grazing land.

Person responsible -- Richard A. Metzger, Maintenance Director.



RECEIVED

MAR 1 1978

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

RECEIVED

FEB 2 1978

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

RECEIVED

FEB 14 1978

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION



Department of Health and Environmental Sciences
STATE OF MONTANA HELENA, MONTANA 59601

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

XXXXXXXXXXXXX
DIRECTOR
A. C. Knight, M.D.
Director

March 2, 1978

George F. Sheckleton, M.D.
County Health Officer
Rm. 205, Courthouse
Billings, Montana 59101

Dear Dr. Sheckleton:

This correspondence will serve as notice that the Montana Department of Health and Environmental Sciences has received a completed application for the following solid waste management system: City of Laurel. This notification is in compliance with the solid waste management rules ARM 16-2.14(2)-S14100, Section (3)(c)(i).

In addition, please find enclosed three public notices. Pursuant to ARM 16-2.14(2)-S14100, Section (3)(c)(i), the local health officer must post one public notice at the nearest post office and two (2) other public buildings serving the geographical area of the proposed solid waste management system.

A copy of this public notice has been sent to the applicant and the area newspaper.

If you should have any questions, please contact this office.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/lb

Enclosures

A. C. Smith, M.D.
Director

1400 15th Avenue, Suite A
Ann Arbor, Michigan 48106
Telephone: (408) 419-3000

RECEIVED

March 2, 1978

George E. Smith, M.D.
Michigan State University
East Lansing, Michigan 48824

Dear Mr. Smith:

This correspondence will serve as notice that the Michigan Department of Health and Environmental Sciences has received a request for information for the following solid waste management system: City of Lansing. The information is in compliance with the solid waste management rules 205.12-2.14(2)-205.100, Section 205.101.

In addition, please find enclosed three public notices. Forward to MSU 205.14(2)-205.100, Section 205.101, the local health officer must post one public notice at the nearest post office and one (2) other public notices serving the geographical area of the proposed solid waste management system.

A copy of this public notice has been sent to the applicant and the news newspaper.

If you should have any questions, please contact this office.

Sincerely,

Wally A. Smith, M.D.
Solid Waste Management Division
Environmental Sciences Division

RECEIVED

RECEIVED

ATTENTION: INFORMATION DIVISION
MICHIGAN DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
1400 15TH AVENUE, SUITE A
ANN ARBOR, MICHIGAN 48106



Department of Health and Environmental Sciences

STATE OF MONTANA HELENA, MONTANA 59601

Solid Waste Management Bureau

1400 11th Avenue, Suite A

Helena, Montana 59601

Telephone: (406) 449-2821

~~XXXXXXXXXX~~

A. C. Knight, M.D.

Director

PUBLIC NOTICE

An application for the licensing of a solid waste management system has been submitted to the Montana Department of Health and Environmental Sciences, Solid Waste Management Bureau, for processing. The name and address of the applicant follows:

City of Laurel
Box 6
Laurel, Montana 59044

The solid waste management system is located in the NW 1/4 of Section 33 Township 1S Range 24E, Yellowstone County, and serves the following area(s): Laurel and vicinity

The application has been reviewed by the department and has been found to be complete. The proposed decision of the department is to:

- ☒ License
- ☐ Conditionally license
- ☐ Deny licensing the proposed solid waste management system

The purpose of this notice is to inform the public of the proposed decision of the department and to seek their participation in the decision-making process. Pursuant to ARM 16-2.14(2)-S14100, Section (3)(c)(i), a thirty-day period from the date of this notice will be given for the public to submit written comments to the department concerning the license application. All comments should be addressed to the Solid Waste Management Bureau, 1400 11th Avenue, Helena, Montana 59601. Interested persons may obtain copies of the completed application upon request by enclosing the copying cost of \$1.00.

Dated this 2nd day of March, 19 78.

Department of Health and Environmental Sciences
 Solid Waste Management Bureau
 1400 11th Avenue, Suite A
 Helena, Montana 59601
 Telephone: (406) 449-7331

Director
 A. C. Ralston, M.D.

PUBLIC NOTICE

An application for the licensing of a solid waste management system has been submitted to the Montana Department of Health and Environmental Sciences, Solid Waste Management Bureau, for processing. The name and address of the applicant follows:

City of Laurel
 Box 6
 Laurel, Montana 59044

The solid waste management system is located in the NW 1/4 of Section 21 Township 1E Range 24E, Yellowstone County, and serves the following areas: Laurel and vicinity.

The application has been reviewed by the department and has been found to be complete. The proposed decision of the department is as follows:

☒ License

☐ Conditionally license

☐ Deny licensing the proposed solid waste management system

The purpose of this notice is to inform the public of the proposed decision of the department and to seek their participation in the decision-making process. Pursuant to ARM 16-2-14(2)-214100, Section 16-2-14(2), a thirty-day period from the date of this notice will be given for the public to submit written comments to the department concerning the license application. All comments should be addressed to the Solid Waste Management Bureau, 1400 11th Avenue, Helena, Montana 59601. Interested persons may obtain copies of the requested application upon request by enclosing the copying cost of \$1.00.

Dated this 2nd day of March, 1978.

Site: Yellowstone Co. - Shepherd County: Yellowstone

Date original application received: _____

Application complete: Yes _____ No _____

Missing: _____ name and business address of applicant

☒ legal and general description of the proposed location(s)

_____ total acreage of proposed site

_____ population size and centers to be served by the proposed site

_____ pertinent water quality information

_____ geological and soil information

_____ present uses of adjacent lands

_____ zoning information

_____ maps, drawings, etc., if necessary

_____ name of individual operator

☒ proposed operation and maintenance plan

Date additional information requested: 3-8-78

Ninety (90) day limit date: 6-8-78

Date completed application received: _____

Fifteen (15) day health officer date: _____

Health officer notice sent date: _____

Date proposed decision: _____

Date public notice sent out: _____

Thirty (30) day limit date: _____

Final Decision:

_____ License _____ License conditionally _____ Not license

_____ Date

Date conditional license expires: _____

Explanation of conditions: _____

Date license sent to health officer for signature: _____

Fifteen (15) day limit date: _____

Application for _____
Name and business address of applicant _____
City _____ State _____ Zip _____

Legal and general description of the proposed location(s) _____
Total acreage of proposed site _____
Regulation area and contour to be served by the proposed site _____
Estimated water quality information _____
Geological and soil information _____
Present uses of adjacent lands _____
Existing information _____
Maps, drawings, etc., if necessary _____
Name of individual operator _____
Proposed operation and maintenance plan _____

Date additional information requested: _____
Priority (90) day limit date: _____
Date completed application received: _____
Priority (90) day health officer date: _____
Health officer notice sent date: _____
Date proposed decision: _____
Date health officer sent notice: _____
Priority (90) day limit date: _____

Final Decision: _____
License _____
Date _____
Date conditional license expires: _____
Expiration of condition: _____
Date license sent to health officer for signature: _____
Priority (90) day limit date: _____

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

xxxxxxxxxxx
A. C. Knight, M.D.
Director

March 8, 1978

Mr. Ed L. Stow, Chief
Environmental Health Division
Yellowstone City-County Health Dept.
Room 205, Courthouse
Billings, Montana 59101

Dear Mr. Stow:

The Solid Waste Management Bureau has received your application for a solid waste management system license for the facility north of Billings in Section 2, Township 2 North, Range 26 East. We are returning the application to you, as it is deficient in several respects. You should make the necessary changes and submit the required additional information in order that we may properly process the application. The following changes and additions are required to make the application complete:

Page 1.

- a. You should show that the application is for a "solid waste disposal site", not "other" as presently shown.
- b. A general description of location should be given in addition to the legal description.

Page 2.

- a. Although we have information in the file on the soils and geology of the site, we will need a detailed operation and maintenance plan. You should refer to the Solid Waste Management Rule, ARM 16-2.14(2)-S14100, dated December 24, 1977, and specifically to parts (3)(a)(i) and (7), for operation and maintenance plan requirements. Please contact me if you have questions pertaining to the information that should be included in this plan.
- b. A general description of present use of land adjacent to the site, not use of the site itself, is requested.

Although one or more of the waste types presently being received at the county site may be identified as "hazardous wastes" when the U.S. Environmental Protection Agency promulgates final hazardous waste regulations later this year, this department cannot at the present time issue hazardous waste management system licenses. In this interim period (until six months after the EPA promulgates its hazardous waste regulations) general solid waste management system licenses will be issued for all approvable operations. Should any of the wastes being handled at the county facility be identified or classified as hazardous wastes by the EPA regulations, it will be necessary for this bureau to reconsider the site operation in the light of requirements placed on hazardous waste management facilities.

xxxxxxx
A. C. Knight, M.D.
Director

Solid Waste Management Bureau
1400 Fifth Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

March 8, 1978

Mr. Ed L. Stow, Chief
Environmental Health Division
Yellowstone City-County Health Dept.
Room 202, Courthouse
Billings, Montana 59101

Dear Mr. Stow:

The Solid Waste Management Bureau has received your application for a solid waste management system license for the facility north of Billings in Section 2, Township 2 North, Range 28 East. We are returning the application to you, as it is deficient in several respects. You should make the necessary changes and submit the required additional information in order that we may properly process the application. The following changes and additions are required to make the application complete:

Page 1.

- a. You should show that the application is for a "solid waste disposal site", not "other" as presently shown.
- b. A general description of location should be given in addition to the legal description.

Page 2.

- a. Although we have information in the file on the soils and geology of the site, we will need a detailed operation and maintenance plan. You should refer to the Solid Waste Management Rule, ARM 16-2.14(2)-214100, dated December 24, 1977, and specifically to parts (3)(a)(i) and (7), for operation and maintenance plan requirements. Please contact me if you have questions pertaining to the information that should be included in this plan.
- b. A general description of present use of land adjacent to the site, not use of the site itself, is requested.

Although one or more of the waste types presently being received at the county site may be identified as "hazardous wastes" when the U.S. Environmental Protection Agency promulgates final hazardous waste regulations later this year, this department cannot at the present time issue hazardous waste management system licenses. In this interim period (until six months after the EPA promulgates its hazardous waste regulations) general solid waste management system licenses will be issued for all approvable operations. Should any of the wastes being handled at the county facility be identified or classified as hazardous wastes by the EPA regulations, it will be necessary for this bureau to reconsider the site operation in the light of requirements placed on hazardous waste management facilities.

Ed L. Stow
Page 2
March 8, 1978

I am enclosing a copy of the pertinent federal law, the "Resource Conservation and Recovery Act of 1976", for your information. This should help explain the relationship that will exist between the federal and state hazardous waste programs. You will see that the implementation schedule set forth in our state solid waste rule corresponds with the federal schedule.

We will keep you informed as the hazardous waste program develops; and for the present time, please contact this bureau if you should have any difficulties in developing the operation and maintenance plan required for the facility license application.

Sincerely,

Roger C. Thorvilson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

RCT/lb

Enclosures

I am enclosing a copy of the pertinent federal law, the "Resource Conservation and Recovery Act of 1976", for your information. This should help explain the relationship that will exist between the federal and state hazardous waste programs. You will see that the implementation schedule set forth in our state solid waste rule corresponds with the federal schedule.

We will keep you informed as the hazardous waste program develops; and for the present time, please contact this bureau if you should have any difficulties in developing the operation and maintenance plan required for the facility license application.

Sincerely,

Roger C. Thorvilson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

ECT/vlp

Enclosures

Department of Health and Environmental Sciences
STATE OF MONTANA HELENA, MONTANA 59601

Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 449-2821

XXXXXXXXXXXX
A. C. Knight, M.D.
DIRECTOR
Director

June 27, 1977

Dear Interested Persons:

I would like to take this opportunity to encourage you to read carefully Senate Bill 200 (Solid Waste Management Act) and the proposed rules to implement the act, inasmuch as the law and rules will be affecting each of you in the near future. If you haven't received this material in a separate mailing, please contact me and I'll make sure you receive copies.

The most significant portion of this legislation deals with the classification and licensing of all refuse disposal areas. The classification deals specifically with the soils type and hydrogeology of the site; in essence, the physical capability of the site to prevent pollution problems. In most cases, the local Soil Conservation Service has been most helpful in supplying this information. However, any "professional engineer" is qualified to perform the analysis. The above information, along with an operation and maintenance plan addressing how waste will be handled at the disposal site, will be required before a license may be issued. Items to be considered when drafting an operation and maintenance plan are found on page 2 of the proposed rules for Senate Bill 200.

It must be stressed that an approved operation and maintenance plan must make provisions for the prohibition of open burning of refuse, compaction and covering of refuse after each day the site is open to the public, and control of the site to prevent unauthorized entry and dumping. At any properly operated and maintained site, hours of operation and days the site is open for dumping are rigidly controlled.

License application forms and final drafts of the rules will be forwarded to you after approval. Your prompt response will be appreciated.

If you should have any questions or comments, feel free to contact me.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/1b



Solid Waste Management Bureau
1400 11th Avenue, Suite A
Helena, Montana 59601
Telephone: (406) 442-2651

June 27, 1977

Dear Mr. [Name]:

I would like to take this opportunity to encourage you to read carefully the Bill 200 (Solid Waste Management Act) and the proposed rules to implement the act. The act and rules will be affecting each of you in the near future. If you haven't received this material in a separate mailing, please contact me and I'll send you a separate copy.

The most significant portion of this legislation deals with the classification and licensing of all waste disposal sites. The classification deals specifically with the type and technology of the site; in essence, the physical capacity of the site to accept waste. In most cases, the local Soil Conservation Service has been most helpful in supplying this information. However, the "environmental engineer" is qualified to perform the analysis. The above information, when with an operation and maintenance plan addressing how waste will be handled at the disposal site, will be required before a license may be issued. Items to be considered when developing an operation and maintenance plan are listed on page 7 of the proposed rules for Senate Bill 200.

It must be stressed that an approved operation and maintenance plan must make provision for the prohibition of open burning of refuse, composting and covering of refuse after each day the site is open to the public, and control of the site to prevent unauthorized entry and dumping. At any property operated and maintained site, hours of operation and days the site is open for burning are strictly controlled.

Please application forms and final drafts of the rules will be forwarded to you after approval. Your prompt response will be appreciated.

If you should have any questions or comments, feel free to contact me.

Sincerely,

Wally A. Truesler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

WAT/10

Hon. L. C. Allen
Mayor, City of Glendive
Glendive, Montana 59330

Hon. Clyde Gore
Mayor, Town of Hobson
Hobson, Montana 59452

Hon. Lewis Nelson
Mayor, Town of Grass Range
Grass Range, Montana 59032

Hon. Joseph Erchul
Mayor, Town of Hot Springs
Hot Springs, Montana 59845

Hon. Charles L. Lane
Mayor, Town of Lavina
Lavina, Montana 59406

Hon. John C. Bulen
Mayor, City of Great Falls
Great Falls, Montana 59401

Hon. J. C. Taylor
Mayor, Town of Hysham
Hysham, Montana 59038

Hon. Robert E. LaFountain
Mayor, City of Lewistown
Lewistown, Montana 59457

Hon. Ray Thrailkill
Mayor, City of Hamilton
Hamilton, Montana 59840

Hon. Ray Shipman
Mayor, Town of Ismay
Ismay, Montana 59336

Hon. Fred A. Brown
Mayor, City of Libby
Libby, Montana 59923

Hon. Jeff Roberts
Mayor, City of Hardin
Hardin, Montana 59034

Hon. R. E. Baumann
Mayor, Town of Joliet
Joliet, Montana 59041

Hon. Edgar C. Spry
Mayor, Town of Lima
Lima, Montana 59739

Hon. Harold R. Magnuson
Mayor, City of Harlem
Harlem, Montana 59526

Hon. Mary Ann Engdahl
Mayor, Town of Jordan
Jordan, Montana 59337

Hon. Bernard G. Ebert
Mayor, City of Livingston
Livingston, Montana 59047

Hon. Oscar Biegel
Mayor, City of Harlowton
Harlowton, Montana 59036

Hon. Mark R. Haynes
Mayor, Town of Judith Gap
Judith Gap, Montana 59453

Hon. Pete Plenty Hawk
Mayor, Town of Lodge Grass
Lodge Grass, Montana 59050

Hon. Norris Hyatt
Mayor, City of Havre
Havre, Montana 59501

Hon. Norma E. Happ
Mayor, City of Kalispell
Kalispell, Montana 59901

Hon. E. L. Seel
Mayor, City of Malta
Malta, Montana 59538

Hon. Kathleen Ramey
Mayor, City of Helena
Helena, Montana 59601

Hon. Kenneth Hannon
Mayor, Town of Kevin
Kevin, Montana 59454

Hon. Leo Clinton
Mayor, Town of Manhattan
Manhattan, Montana 59741

Hon. Joe Raunig
Mayor, Town of Hingham
Hingham, Montana 59528

Hon. Larry D. Herman
Mayor, City of Laurel
Laurel, Montana 59044

Hon. Robert French
Mayor, Town of Medicine Lake
Medicine Lake, Montana 59247

W. C. Allen
City of Clatsop
Clatsop, Montana 59733

Hon. Clyde Gorn
Mayor, Town of Hobson
Hobson, Montana 59455

Lewis Nelson
Town of Grass Range
Grass Range, Montana 59035

Hon. Joseph Erch
Mayor, Town of Hot Springs
Hot Springs, Montana 59845

Hon. Charles J. Lane
Mayor, Town of Laramie
Laramie, Montana 59040

John C. Baker
City of Great Falls
Great Falls, Montana 59401

Hon. J. C. Taylor
Mayor, Town of Hysham
Hysham, Montana 59038

Hon. Robert E. LaFountain
Mayor, City of Lewistown
Lewistown, Montana 59457

Ray Thorsen
City of Hamilton
Hamilton, Montana 59400

Hon. Ray Salzman
Mayor, Town of Jamez
Jamez, Montana 59456

Hon. Fred A. Brown
Mayor, City of Libby
Libby, Montana 59923

Jeff Roberts
City of Marina
Marina, Montana 59536

Hon. R. E. Rasmussen
Mayor, Town of Joliet
Joliet, Montana 59041

Hon. Edgar C. Sorey
Mayor, Town of Lima
Lima, Montana 59738

Harold R. Hagenson
City of Harlem
Harlem, Montana 59526

Hon. Mary Ann Endahl
Mayor, Town of Jordan
Jordan, Montana 59337

Hon. Richard E. Elbert
Mayor, City of Livingston
Livingston, Montana 59047

Oscar Sigel
City of Lewistown
Lewistown, Montana 59036

Hon. Mark R. Haynes
Mayor, Town of Judith Gap
Judith Gap, Montana 59473

Hon. Pete Plentz
Mayor, Town of Lodge Grass
Lodge Grass, Montana 59050

Norma Hyle
City of Havre
Havre, Montana 59501

Hon. Norma E. Hagg
Mayor, City of Kalispell
Kalispell, Montana 59901

Hon. E. L. Sael
Mayor, City of Malta
Malta, Montana 59538

Kathleen Ramey
City of Helena
Helena, Montana 59601

Hon. Kenneth Hannon
Mayor, Town of Kevin
Kevin, Montana 59454

Hon. Leo Clinton
Mayor, Town of Mandan
Mandan, Montana 58541

Joe Rasmus
Town of Hysham
Hysham, Montana 59038

Hon. Larry B. Herman
Mayor, City of Laurel
Laurel, Montana 59044

Hon. Robert French
Mayor, Town of Medicine Lake
Medicine Lake, Montana 59247

APPLICATION FOR REFUSE DISPOSAL SITE LICENSE

(To be Submitted to the Local Board of Health)

I hereby make application for a license to conduct a refuse disposal area to serve the community of Laurel, County of Yellowstone, located in the NE 1/4 of NW quarter section of Section 33, Township 1S, Range 24E.

A fee of Twenty-Five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, rural improvement district, or county.)

Name of responsible operating agency or individual:

City of Laurel

Address Box 6, City Laurel, Montana 59044

Total acreage in proposed site 10. Usuable acreage 10

Population to be served 7000

Will roads and bridges support loaded truck during wet weather? Yes x, No .

Distance from public or private water supply 3 miles feet.

Depth of water table variable feet.

Is site subject to flooding? Yes . No x.

Is site located in natural drainage course? Yes , No x.

Type of soil at site--Clay x, Sandy , Limestone , Other

Are there any springs in the area? Yes , No x. If "yes" what is the distance from site?

Location of site from center of populated area to be served 3 miles; direction from community North.

I hereby agree to operate said refuse disposal area in accordance with Sections 69-4001 through 69-4010, R.C.M., 1947, and the State Department of Health and Environmental Sciences' regulations governing solid waste disposal.

Date November 16, 1976 signed *Curry S. Isaacs*

NOTE: This application must be renewed annually in compliance with Section 69-4004, Revised Codes of Montana, 1947.

TO BE FILLED OUT BY LOCAL BOARD OF HEALTH

Is this area being operated in compliance with sections 69-4001 through 69-4010, R.C.M., 1947: Yes X, No .

Comments

Site approved by State Department of Health on 1-31-77.
By *PRT*

Signature
License No. issued for
this site on

(Please submit carbon copy to Montana State Department of Health and Environmental Sciences, Solid Waste Management Bureau, 1424 9th Avenue, Helena, Montana.)

(To be Submitted to the Local Board of Health)

I hereby make application for a license to conduct a refuse disposal site to serve the community of _____, County of _____, located in the _____ quarter section of Section _____, Township _____, Range _____.

A fee of Twenty-five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, or independent district, or county.)

Name of responsible operating agency or individual: _____

City of _____

Address: _____

Total acreage in proposed site _____

Population to be served _____

Will roads and bridges support loaded trucks during wet weather? Yes ☒ No ☐

Distance from public or private water supply _____

Depth of water table _____

Is site subject to flooding? Yes ☐ No ☒

Is site located in watershed of navigable water? Yes ☐ No ☒

Type of soil at site: Clay ☐ Sandy ☐ Silty ☐ Other ☒

Are there any springs in the area? Yes ☐ No ☒

Location of site from center of population area to be served _____

Direction from community _____

I hereby agree to comply with all laws, rules, regulations, and orders of the State Department of Health and Environmental Sciences, regarding the operation of this site.

Date: November 10, 1975

NOTE: This application must be renewed annually in compliance with Section 62-4001.

Revised Code of Montana, 1973

TO BE FILLED OUT BY LOCAL BOARD OF HEALTH

Is this site being operated in compliance with sections 62-4001 through 62-4010, R.C.M., 1973? Yes ☒ No ☐

Comments: _____

Site approved by State Department of Health on _____

Signature _____
License No. _____
This site on _____

Please submit carbon copy to Montana State Department of Health and Environmental Sciences, Solid Waste Management Bureau, 1425 5th Avenue, Helena, Montana.

Laurel

Solid Waste Management Bureau
Old Board of Health Building
Helena, Montana 59601
Telephone: (406) 449-2821

April 16, 1976

Hon. Louis Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

It has come to our attention that the city of Laurel will soon be implementing the Rapid Rail System for garbage collection. We in the Solid Waste Management Bureau have been following very closely the development of this particular type of garbage collection. It appears to us that this is definitely a great improvement in this area. The city of Laurel should be commended for their interest in improving the efficiency of city management. We feel that implementation of the Rapid Rail System definitely follows in this line.

As I stated before, we have been watching the development of this system closely. It has been in development for four or five years and has been tried in a number of cities with great success. It is not without its faults and problems; nor is any system. However, I don't believe these faults and problems are insurmountable.

Again, our congratulations on the foresight of the city of Laurel for your willingness to implement a new system that has some very obvious advantages toward increased efficiency. We would like to keep abreast of the implementation of this system in Laurel, so that we can pass on your experience to other communities that they too may benefit from your experience.

If we can be of any assistance to you during the implementation stages, we will make every effort to do whatever you request. Again, congratulations to the city of Laurel.

Sincerely,

TERRENCE D. CARMODY, CHIEF
Solid Waste Management Bureau
Environmental Sciences Division

TDC:ao

Public Health Department Bureau
City of New York
New York, N.Y.
Telephone: 4-12-1221

April 11, 1935

Dear Mr. [Name]
[Address]
[City, State, Zip]

It has been an honor to receive your letter of the 10th of April and to learn that you are interested in the work of the Public Health Department. It is the policy of this Department to have a representative of the various types of business and industry in the City of New York. It is our hope that you will be able to help us in this work. We are interested in the work of the various types of business and industry in the City of New York. We are interested in the work of the various types of business and industry in the City of New York.

We are interested in the work of the various types of business and industry in the City of New York. We are interested in the work of the various types of business and industry in the City of New York. We are interested in the work of the various types of business and industry in the City of New York. We are interested in the work of the various types of business and industry in the City of New York.

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If we can be of any assistance to you during the investigation, we will make every effort to do so. We are interested in the work of the various types of business and industry in the City of New York.

Sincerely,

THOMAS A. CAMPBELL, M.D.
Public Health Department Bureau
New York, N.Y.

ENCLOSURE

APPLICATION FOR REFUSE DISPOSAL SITE LICENSE

(To be Submitted to the Local Board of Health)

I hereby make application for a license to conduct a refuse disposal area to serve the community of Laurel, County of Yellowstone, located in the NW quarter section of Section 33, Township 1S, Range 24E.

A fee of Twenty-Five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, rural improvement district, or county.)

Name of responsible operating agency or individual:

City of Laurel

Address Box 1136, City Laurel, Montana 59044

Total acreage in proposed site 10. Usuable acreage 10

Population to be served 6000

Will roads and bridges support loaded truck during wet weather? Yes x, No

Distance from public or private water supply 3 miles feet.

Depth of water table variable feet.

Is site subject to flooding? Yes , No x

Is site located in natural drainage course? Yes , No x

Type of soil at site--Clay x, Sandy , Limestone , Other

Are there any springs in the area? Yes , No x. If "yes" what is the distance from site?

Location of site from center of populated area to be served 3 miles; direction from community North

I hereby agree to operate said refuse disposal area in accordance with Sections 69-4001 through 69-4010, R.C.M., 1947, and the State Department of Health and Environmental Sciences' regulations governing solid waste disposal.

Date December 10, 75 Signed John A. Daley

NOTE: This application must be renewed annually in compliance with Section 69-4004, Revised Codes of Montana, 1947.

TO BE FILLED OUT BY LOCAL BOARD OF HEALTH

Is this area being operated in compliance with sections 69-4001 through 69-4010, R.C.M., 1947: Yes , No .

Comments

Site approved by State Department of Health on Jan 9, 1976

By Barbara L. Swasey

Signature
License No. issued for
this site on

(Please submit carbon copy to Montana State Department of Health and Environmental Sciences, Solid Waste Management Bureau, 1424 9th Avenue, Helena, Montana.)

(To be submitted to the local Board of Health)

I hereby make application for a license to conduct a refuse disposal area to serve the community of _____, County of _____, State of _____, located in the _____ quarter section of Section _____, Township _____, Range _____.

A fee of Twenty-Five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, rural improvement district, or county.)

Name of responsible operating agency or individual: _____

City or town: _____

Address: _____

Local agency or organization: _____

Will there be any other refuse disposal areas within the community? Yes ☐ No ☐
Distance from point of refuse disposal: _____ feet.

Depth of water table: _____ feet.

Is site subject to flooding? Yes ☐ No ☐

Is site located in natural drainage course? Yes ☐ No ☐

Type of soil: _____
Are there any springs in the area? Yes ☐ No ☐ If yes, what is the distance from site? _____

Location of site from center of population area to be served: _____ miles.
Distance from community: _____

I hereby agree to comply with all laws, rules, regulations, orders, and decrees of the State Department of Health and Environmental Sciences, regulations governing solid waste disposal, and all other laws, rules, regulations, orders, and decrees of the State of Montana.

Date: _____

NOTE: This application must be returned with Section 69-4001, Revised Code of Montana, 1973.

TO BE RETURNED TO LOCAL BOARD OF HEALTH

Is this area being operated in accordance with Section 69-4001 through 69-4004, R.C.M., 1973? Yes ☐ No ☐

Comments: _____

RECEIVED

DEC 29 1975

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

Signature: _____

License No. _____

This site on _____

(Please submit this application to the local Board of Health and Environmental Sciences, 124 3rd Avenue, Helena, Montana.)



Laurel - Yellowstone
Department of Health and Environmental Sciences
STATE OF MONTANA HELENA, MONTANA 59601

John S. Anderson M.D.
DIRECTOR

Solid Waste Management Bureau
1424 9th Avenue
Helena, Montana 59601
Telephone: 449-2821

December 30, 1974

This letter is written to inform you of a growing problem facing all communities - land available for solid waste disposal.

The State Department of Health and Environmental Sciences, Solid Waste Management Bureau, as well as the county health departments in Montana, work continually to assist communities in acquiring land for solid waste disposal. Both private and public land have become almost impossible to acquire. Soon condemnation will remain the only avenue to provide communities with land for refuse disposal. We contend that the only way to provide land for refuse disposal is through planning; therefore, we are contacting you to inform you of the growing problem.

Somehow long-range land use plans should provide for actual purchase or acquisition of land for refuse disposal. This might provide you, the city, county, or city-county planning board, a way of depicting progress for grants and to show how much money you save the community by assisting in land provision for refuse disposal.

We can only continue to inform you of this problem and hope that you can assist by including this as a priority concerning each one of us.

Sincerely,

TERRENCE D. CARMODY, CHIEF
Solid Waste Management Bureau
Environmental Sciences Division

TDC/sss



Solid Waste Management Bureau
1436 9th Avenue
Helena, Montana 59601
Telephone: 443-3311

December 30, 1974

This letter is written to inform you of a growing problem facing all communities - land available for solid waste disposal.

The State Department of Health and Environmental Sciences, Solid Waste Management Bureau, as well as the county health departments in Montana, work continually to assist communities in securing land for solid waste disposal. Both private and public land have become almost impossible to acquire. Communities will remain the only avenue to provide communities with land for refuse disposal. We contend that the only way to provide land for refuse disposal is through planning; therefore, we are contacting you to inform you of the growing problem.

Somewhat long-range land use plans should provide for actual purchase or acquisition of land for refuse disposal. This might provide you, the city, county, or city-county planning board, a way of developing programs for waste disposal and to show how much money you save the community by acquiring its own provision for refuse disposal.

We can only continue to inform you of this problem and hope that you can assist by including this as a priority concerning each one of us.

Sincerely,

Theresa D. Carney

TERESA D. CARNEY, CHIEF
Solid Waste Management Bureau
Environmental Sciences Division

RECEIVED
DEC 31 1974

V. R. Uttke, Chairman
Baker Planning Board
Baker, MT 59313

David Smith, Chairman
Ennis Planning Board
Ennis, MT 59729

John J. Daley, Pres.
Laurel Planning Board
1102 Sunhaven Dr.
Laurel, MT 59044

Leonard Sundell, Pres.
Billings Planning Board
1434 Granite Avenue
Billings, MT 59101

Ken Smith, Chairman
Fort Benton Planning Board
1608 St. Charles
Fort Benton, MT 59442

Robert White, Pres.
Lewistown Planning Board
Rt. 2, Spring Creek Rd.
Lewistown, MT 59457

Gerald Goldenstein, Pres.
Bozeman Planning Board
South of Bozeman
Bozeman, MT 59715

Manson Bailly, Jr., Pres.
Glasgow Planning Board
Box 832
Glasgow, MT 59230

Fred Brown, Pres.
Libby Planning Board
1119 Dakota Avenue
Libby, MT 59923

Ed Aubert, Chairman
Browning Planning Board
Browning, MT 59417

Frederick Dion, Chairman
Glendive Planning Board
803 Meade
Glendive, MT 59330

Ray Hedrick, Chairman
Livingston Planning Board
424 W. Clark
Livingston, MT 59047

W. Earl Hasbrouck, Pres.
Great Falls Planning Board
Box 1125 (Milligan Rt)
Great Falls, MT 59403

Russell Shore, President
Miles City Planning Board
1101 S. Lake
Miles City, MT 59301

Charles A. Kestle, Pres.
Butte Planning Board
2501 Harrison Avenue
Butte, MT 59701

Dr. William Jellison, Pres.
Hamilton Planning Board
504 South 3rd
Hamilton, MT 59840

Richard Ainsworth, Pres.
Missoula Planning Board
Box 298
Missoula, MT 59801

George Hanson, Chairman
Col. Falls Planning Board
Highway 2 S, Box 417
Columbia Falls, MT 59912

Roland Croghan, Chairman
Hardin Planning Board
206 Maverick Rd.
Hardin, MT 59034

Ronald Oldis, Chairman
Polson Planning Board
506 11th Ave. E
Polson, MT 59860

Robert Noe, President
Columbus Planning Board
Absarokee, MT 59001

Clarence Olson, Chairman
Harlem Planning Board
418 2nd Ave. SE
Harlem, MT 59526

Harry L. Axtmann
Poplar Planning Board
433 2nd Ave. W
Poplar, MT 59225

Ron Bokma, President
Conrad Planning Board
Conrad, MT 59425

Robert Nault, Chairman
Havre Planning Board
Box 1756
Havre, MT 59501

Elmer G. Duncan, Pres.
Red Lodge Planning Board
403 N. Platt
Red Lodge, MT 59068

Joe Meagher, President
Cut Bank Planning Board
403 East Main
Cut Bank, MT 59427

Craig Winterburn, Pres.
Helena Planning Board
4385 Wylie Dr.
Helena, MT 59601

Byron Kluth, President
Shelby Planning Board
250 O'Haire Blvd.
Shelby, MT 59474

Glen Kenison, President
Deer Lodge Planning Board
223 Rumsey
Anaconda, MT 59711

Charles Hash, President
Kalispell Planning Board
Route 2, Greenacres
Kalispell, MT 59901

Harold Mercer, Chairman
Sidney Planning Board
115 2nd Ave. SE
Sidney, MT 59270

Solid Waste Management Bureau
1400 11th Avenue, Suite a
Helena, Montana 59601
Telephone: (406) 449-2821

xxxxxxxxxx
A. C. Knight, M.D.
Director

December 23, 1977

Mr. Ed Stowe
Yellowstone City-Co. Health Dept.
Courthouse
Billings, Montana 59101

Dear Ed:

I am in receipt of application for refuse disposal site licenses for Shepherd (Yellowstone County), city of Billings, and the city of Laurel refuse disposal areas. These license applications are no longer valid because the Solid Waste Management Act (Senate Bill 200) passed in the 45th Montana Legislature mandates the Department of Health and Environmental Sciences to license solid waste management systems. License applications for solid waste management systems, provided by the department, will be sent to you shortly after the first of the year.

As part of the licensing procedure, an operation and maintenance plan must also be submitted for approval. The operation and maintenance plan will include such items as frequency of cover, days and hours of operation, soil types, access control, litter control, etc. If questions arise after you receive the license applications, I would be more than happy to assist you.

I am returning your applications and if I can be of further assistance regarding this matter, feel free to contact me.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/lb

City of Laurel
August 15, 1973

Solid Waste Section
(406) 449-2408

Laurel
JK 14

August 27, 1973

Re: Request for approval of landfill
site for the community of Laurel
Location: NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 33,
Township 1S, Range 24E.

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

This letter will serve as approval of the above-described site for
use as a refuse disposal area.

This approval is based upon a soils analysis prepared by the U.S.
Soil Conservation Service, Billings, and an on-site investigation by
Mr. Duane Robertson of this department.

Sincerely yours,

John S. Anderson, M.D.
Director

JSA:DLR:ao

cc: Mr. Robert Raundal, Administrator, Land Administration, Dept. of State
Lands, State Capitol, Helena
Mr. John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Jerry Jacoby, District Conservationist, Soil Conservation Service,
1629 Avenue D, Building B, Suite 3, Billings
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 205, Courthouse, Billings

12/21
see file
Louis Yovetich, Mayor

City of Laurel

LAUREL, MONTANA

August 15, 1973

Mr. Terry Carmody
State Health Board
Helena, Montana

Dear Terry:

Re: Landfill

We are still struggling with a proposed landfill site in State Section 33, Twp 1 S Range 24 E. We have had soil interpretation from the Federal SCS and I'm enclosing copies of the pertinent pages from this report. Every thing East of the road along the ridge in the West part of the Section is usable.

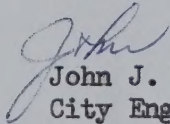
We need an O.K. on our proposed landfill from your office. Would you send the Land Commissioner the same with a copy to us?

The zerox copy of the map is poor because it was colored. They have told us in effect that every thing East of the roadway is in a different drainage and may be used for this purpose.

We are thinking of 20 acres along the County roads in the N W¹/₄ adjoining the 20 the County has in the extreme NW corner.

Thanking you, I am

Very truly yours,


John J. Daley
City Engineer

JJD/1

cc: file

Louis Yovetich, Mayor

City of Laurel

LAUREL, MONTANA

August 12, 1973

Mr. Terry Carney
State Health Board
Helena, Montana

Re: Landfill

Dear Terry:

We are still struggling with a proposed landfill site in State Section 33, Twp 1 S Range 24 E. We have had self interpretation from the Federal 303 and I'm enclosing copies of the pertinent pages from this report. Every thing West of the road along the ridge in the West part of the Section is usable.

We need an O.K. on our proposed landfill from your office. Would you send the Land Commissioner the same with a copy to me?

The serax copy of the map is poor because it was colored. They have told us in effect that every thing East of the roadway is in a different drainage and may be used for this purpose.

We are thinking of 20 acres along the County roads in the NW corner adjoining the 30 the County has in the extreme NW corner.

Thanking you, I am

Very truly yours,

John J. Foley
City Engineer

STATE DEPT. OF HEALTH
DIV. ENV. SANITATION

cc: File
Leslie Foyetich, Mayor

RECEIVED
AUG 16 1973

1629 Avenue D, Building B, Suite 3, Billings, Montana 59102

August 1, 1973

John Dailey, City Engineer
Laurel, Montana

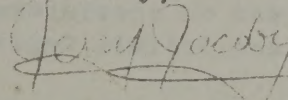
Dear Mr. Dailey,

This report includes soil limitations for trench-type sanitary landfills. Although only the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 33 is being considered at this time, the additional area maybe needed for future expansion.

Also included are examples of minimum cross-sections and nonerosive grades for two diversions if the decision is made to divert runoff water from the trench areas.

Assistance is available through the Yellowstone Conservation District for a land use plan. The plan may include diversion design, reseeding of trenched areas and future land use after the filling operations are completed. This assistance may be obtained by calling the U. S. Soil Conservation Service, Billings, Montana.

Sincerely,



Jerry Jacoby
District Conservationist



RECEIVED
AUG 16 1973
DIV. ENV. SANITATION
STATE DEPT. OF HEALTH



INTRODUCTION

This report is based on a standard soil survey. The soil mapping units are not always uniform but may include variations or inclusions as described in the official soil descriptions, which are on file at the Soil Conservation Service office.

The information in this report does not eliminate the need for on-site investigation for a specific development or land use. It can be used as a guide for planning more detailed on-site investigations.

Soils have limitations in their capacity for development for various uses, depending on their inherent characteristics such as depth, texture, slope, stoniness, permeability and others. These limitations are rated and expressed as slight, moderate, or severe. These are defined as follows:

1. Slight

These soils have few, if any, limitations for the use considered.

2. Moderate

These soils have one or more properties that limit their use. The limitation may be overcome by special measures or treatment. This will increase the cost of the development or use over the normal cost expected on soils with slight limitations.

3. Severe

These soils have one or more properties that seriously limit their use. It may be possible to correct these limitations, however, the cost will be high.



This report is based on a preliminary survey. The data collected
may not always reflect the actual situation. The data collected
in this report is for informational purposes only and is not
to be used for any other purpose.

The following is a list of the data collected for the purpose of
this report. The data is presented in a tabular form for easy
reference. The data is presented in a tabular form for easy
reference. The data is presented in a tabular form for easy
reference.

Table 1: Data collected for the purpose of this report. The data is
presented in a tabular form for easy reference. The data is
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Table 2: Data collected for the purpose of this report. The data is
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SOIL LIMITATIONS

TRENCH-TYPE SANITARY LANDFILLS

2 Ten Acre parcels
next to these roads

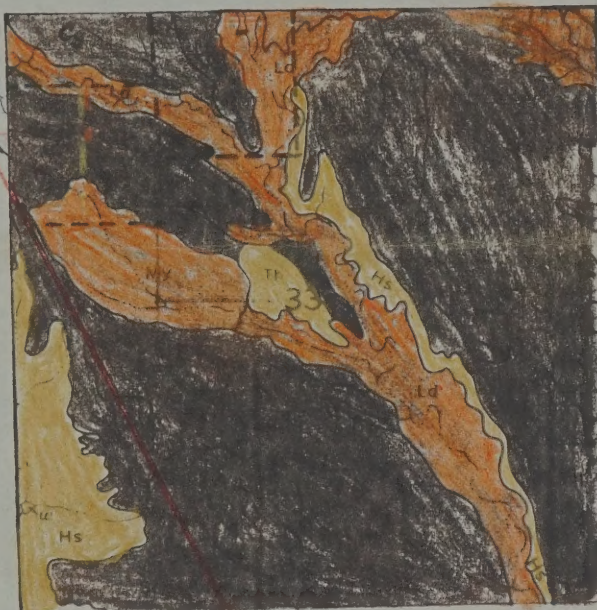
Section 33; T 1 S; R 24 E

SOIL LIMITATIONS

SLIGHT

MODERATE

SEVERE



Symbol	Name	Slope	Limitations
Cg	Clapper gravelly loam	7-15%	Slight
Es	Elso-Lohmiller Complex	15-35%	Severe: Shallow to shale and more than 25% slopes
Hs	Hilly gravelly land	15-35%	Moderate: Slopes more than 15%
Ke	Keiser silty clay loam	1-4%	Slight
La	Lambert silt loam	1-4%	Slight
Lb	Lambert silt loam	4-7%	Slight
Ld	Lambert silt loam	7-35%	Severe: Shallow and more than 25% slopes
Mt	McRae-Hysham loams	0-1%	Slight
My	Midway-Shale outcrop complex	variable	Severe: Shallow to shale
Sr	Shorey gravelly loam	4-7%	Slight
Th	Toluca clay loam	1-4%	Moderate: Permeability more than 2.0in/hr
Yt	Yegen and Toluca soils	7-15%	Slight

Note: Soil limitation ratings are based on soil depth (5-6 feet) commonly investigated in making soil surveys.

THREE-FOUR SIXTY-ONE LABORERS

Division 147 1 31 14 1

SELF EMPLOYED

212007

NO. 1474

212007



STATE DEPT. OF HEALTH
DIV. ENV. SANITATION

RECEIVED
AUG 16 1973

NOTE: This information is for the use of the State Department of Health (D-1000) and is not to be used for any other purpose.

AK 19

Solid Waste Section
(406) 449-2408

June 4, 1973

Mr. Robert S. Raundal
Administrator
Division of Land Administration
Department of State Lands
Helena, Montana 59601

Dear Mr. Raundal:

Re: Suitability of Section 33, Township 1S, Range 24E for use as
sanitary landfill

Your letter dated May 22 addressed to Dr. John S. Anderson has been
referred to me for reply.

We reviewed the District Conservationist's report and requested the
State Soil Conservationist to also review the report. Based on their
evaluations, this land is not suitable for use as a sanitary landfill.

Therefore, we request that the application for an easement for landfills
in this area be denied.

Sincerely,

TERRENCE D. CARMODY, Project Coordinator
Solid Waste Section
Environmental Sciences Division

TDC:ao

Public Health Service
Washington, D.C.

June 1, 1972

Dr. Robert E. Thompson
1001 L Street, N.E.
Washington, D.C. 20002
Dear Dr. Thompson:

Thank you for your letter of May 15, 1972.

The following information is being furnished to you for your information:

On May 15, 1972, the following information was received from the CDC:

On May 15, 1972, the following information was received from the CDC:

On May 15, 1972, the following information was received from the CDC:

Sincerely,

Robert E. Thompson, Director
Public Health Service
Washington, D.C.

Enc.



DEPARTMENT OF STATE LANDS

STATE CAPITOL

HELENA 59601

(406) 449-2074

-E S.

STATE BOARD OF
LAND COMMISSIONERSTHOMAS L. JUDGE
GOVERNORDOLORES COLBURG
SUPT. OF PUBLIC INSTRUCTIONFRANK MURRAY
SECRETARY OF STATEROBERT L. WOODAHL
ATTORNEY GENERAL

May 22, 1973

Dr. John S. Anderson, Director
Department of Health and Environmental Sciences
Cogswell Building
Helena, Montana 59601

Re: Landfill dumps
Sec. 33, Twp. 1S, Rge. 24E
Yellowstone County

Dear Dr. Anderson:

TED SCHWINDEN
COMMISSIONER

We have two applications for an easement for land fill dumps on the above described tract from the City of Laurel and Yellowstone County totaling 80.95 acres.

We would like your opinion as to whether there are any environmental problems concerning water pollution, etc. in granting this easement for a landfill dump.

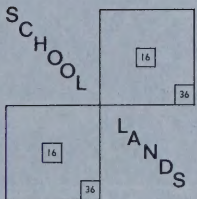
We would also appreciate any recommendations you have with reference to regulations that we should include in the easement.

Our soils information or any other information from this office will be made available to you if needed.

Very truly yours,

Robert S. Raundal
Robert S. Raundal, Administrator
Division of Land Administration.

RSR/lh

A
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PRESENTAN
OPPORTUNITYFOR THE
FUTURE

DEPARTMENT OF STATE LANDS



1973 MAY 24

HEALTH DEPT

STATE CAPITAL

MAY 2, 1973

Dr. John E. Anderson, Director
Department of Health and Environmental Sciences
Bozeman Building
Bozeman, Montana 59601

Re: Landfill dump
Sec. 33, Twp. 18, R. 34E
Yellowstone County

Dear Mr. Anderson:

We have two applications for an easement for landfill dump on the above described tract from the City of Bozeman, Yellowstone County containing 60.92 acres.

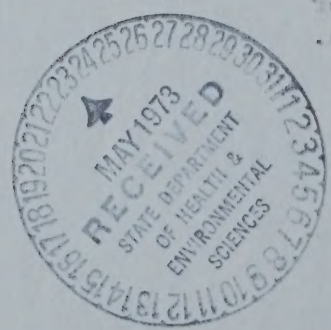
We would like your opinion as to whether there is a potential health problem concerning water pollution, in a landfill dump, and if so, what steps should be taken to prevent this.

We would also appreciate any recommendations you have for reference to regulations that we should include in our easement.

Our office information on any other information from this office will be made available to you if needed.

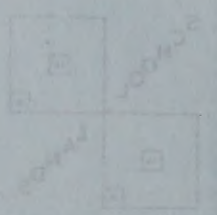
Very truly yours,

Robert E. Anderson
Robert E. Anderson, Administrator
Division of Land Administration



STATE BOARD OF
AND COMMISSIONERS
CHAS. L. JONES
GOVERNOR
COLLEGE OF
OF PUBLIC HEALTH
FRANK MURRAY
CHIEF OF STATE
GARY L. WOODWARD
ATTORNEY GENERAL

THE BOZEMAN
COMMUNITY



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OPPORTUNITY

FOR THE
FUTURE

Solid Waste Section
(406) 449-2408

June 4, 1973

Mr. Robert S. Raundal
Administrator
Division of Land Administration
Department of State Lands
Helena, Montana 59601

Dear Mr. Raundal:

Re: Suitability of Section 33, Township 1S, Range 24E for use as
sanitary landfill

Your letter dated May 22 addressed to Dr. John S. Anderson has been
referred to me for reply.

We reviewed the District Conservationist's report and requested the
State Soil Conservationist to also review the report. Based on their
evaluations, this land is not suitable for use as a sanitary landfill.

Therefore, we request that the application for an easement for landfills
in this area be denied.

Sincerely,

TERRENCE D. CARMODY, Project Coordinator
Solid Waste Section
Environmental Sciences Division

TDC:ao



DEPARTMENT OF STATE LANDS

-E S.

STATE CAPITOL

HELENA 59601

(406) 449-2074

STATE BOARD OF
LAND COMMISSIONERS
THOMAS L. JUDGE
GOVERNOR
DOLORES COLBURG
SUPT. OF PUBLIC INSTRUCTION
FRANK MURRAY
SECRETARY OF STATE
ROBERT L. WOODAHL
ATTORNEY GENERAL

May 22, 1973

Dr. John S. Anderson, Director
Department of Health and Environmental Sciences
Cogswell Building
Helena, Montana 59601

Re: Landfill dumps
Sec. 33, Twp. 1S, Rge. 24E
Yellowstone County

Dear Dr. Anderson:

We have two applications for an easement for land fill dumps on the above described tract from the City of Laurel and Yellowstone County totaling 80.95 acres.

We would like your opinion as to whether there are any environmental problems concerning water pollution, etc. in granting this easement for a landfill dump.

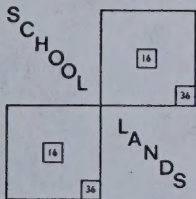
We would also appreciate any recommendations you have with reference to regulations that we should include in the easement.

Our soils information or any other information from this office will be made available to you if needed.

Very truly yours,

Robert S. Raundal
Robert S. Raundal, Administrator
Division of Land Administration.

RSR/lh

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OPPORTUNITYFOR THE
FUTURE

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

1629 Avenue D, Building B, Suite 1, Billings, Montana 59102

'73 MAY 10 PM 11:27

May 8, 1973

Mr. Mike Grende
Reclamation Division
Dept. of State Lands and Investments
Helena, Montana 59601

Dear Mike:

Reference is made to your phone request today for "Soil Features Affecting Land Use Decisions" for the SW $\frac{1}{4}$, Sec 33, T1S, R24E (that portion west of the county road). The proposed use of this parcel of land is for a land fill serving the City of Laurel and surrounding area.

I have prepared a table of soil characteristics pertinent to use as a land fill. The part of the table covering sewage disposal fields and sewage lagoons may seem a little superfluous. I included this data to point out the all-importance of slope and soil permeability. Often times land fills and sewage disposal fields function in a similar manner.

A field trip to the proposed site shows the following:

1. The south part of the site is within a city block of existing dwellings. City expansion has been accelerated in this direction.
2. The site is adjacent to a well traveled oiled county road.
3. It's across the road west from the Laurel cemetery.
4. It's a mile west of the airport.
5. Parts of the (Hs) soils have more than a 35% slope.
6. The site is exposed to the prevailing southwest winds.
7. Bedrock in the area is shale at depths of from 10 inches to somewhat over 10 feet.
8. The topography of the site is such that the great bulk of runoff from the area finds its way into the large coulee along the west edge of the plot. This coulee flows south



May 8, 1973

into the City of Laurel and loses itself in a series of drains, ditches, canals, streets, barrow pits, etc. A cloudburst in this area poses a threat to Laurel.

That part of the plot that drains east finds its way into a coulee that runs southeast into the east part of Laurel where it empties into an open drain.

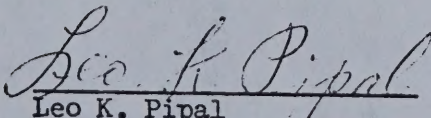
9. The shale underlying the soils of the area are impermeable or very slowly permeable. Rain, snow melt, or liquid wastes deposited will rapidly percolate through the gravels above the shale on the (Hs) soils then ride the impermeable shales to some lower elevation in the direction of Laurel-perhaps become a part of the water table found in many parts of the town.

This same sequence of action will be found on the (Sr) soils but at a somewhat slower rate.

10. It will be very difficult to stop movement of liquids as they ride the top layers of shale south.
11. By removing the gravel and gravelly loam soils from the shale it is possible to excavate into the shale deep enough to find adequate or near adequate confinement for non-biodegradable wastes. Excavation would have to be well beyond the upper layers of weathered shale. Obviously this will be very costly.
12. The costly care of non-biodegradable wastes at the site still doesn't take care of the other wastes.

Attached find a soils map (on photo background) of the area. The plot discussed is outlined in red. Table I is also attached.

Very truly yours,


Leo K. Pipal
District Conservationist

Attachments

cc: Ted Schwinden, Commissioner, Dept. of State Lands

APPLICATION FOR REFUSE DISPOSAL SITE LICENSE

(To be Submitted to the Local Board of Health)

I hereby make application for a license to conduct a refuse disposal area to serve the community of Laurel, County of Yellowstone, located in the NE 1/4 of NW quarter section of Section 33, Township 1S, Range 24E.

A fee of Twenty-Five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, rural improvement district, or county.)

Name of responsible operating agency or individual:

City of Laurel

Address Box 6, City Laurel, Montana 59044

Total acreage in proposed site 10. Usuable acreage 10

Population to be served 7000

Will roads and bridges support loaded truck during wet weather? Yes x, No .

Distance from public or private water supply 3 miles feet.

Depth of water table variable feet.

Is site subject to flooding? Yes . No x.

Is site located in natural drainage course? Yes , No x.

Type of soil at site--Clay x, Sandy , Limestone , Other

Are there any springs in the area? Yes , No x. If "yes" what is the distance from site?

Location of site from center of populated area to be served 3 miles; direction from community North.

I hereby agree to operate said refuse disposal area in accordance with Sections 69-4001 through 69-4010, R.C.M., 1947, and the State Department of Health and Environmental Sciences' regulations governing solid waste disposal.

Date November 16, 1976 signed Gerrit J. Isaacs

NOTE: This application must be renewed annually in compliance with Section 69-4004, Revised Codes of Montana, 1947.

TO BE FILLED OUT BY LOCAL BOARD OF HEALTH

Is this area being operated in compliance with sections 69-4001 through 69-4010, R.C.M., 1947: Yes X, No .

Comments

Site approved by State Department of Health on 1-31-77.
By PRT

Signature
License No. issued for
this site on

(Please submit carbon copy to Montana State Department of Health and Environmental Sciences, Solid Waste Management Bureau, 1424 9th Avenue, Helena, Montana.)

APPLICATION FOR REFUSE DISPOSAL SITE LICENSE

(To be Submitted to the Local Board of Health)

I hereby make application for a license to conduct a refuse disposal area to serve the community of Laurel, County of Yellowstone, located in the NE quarter section of Section 33, Township 18, Range 24E.

A fee of Twenty-Five Dollars (\$25.00) must accompany this application. (No fee is required for an incorporated city, town, rural improvement district, or county.)

Name of responsible operating agency or individual:

City of Laurel

Address Box 1136, City Laurel, Montana 59044

Total acreage in proposed site 10. Usuable acreage 10

Population to be served 6000

Will roads and bridges support loaded truck during wet weather? Yes x, No .

Distance from public or private water supply 3 miles feet.

Depth of water table variable feet.

Is site subject to flooding? Yes . No x.

Is site located in natural drainage course? Yes , No x.

Type of soil at site--Clay x, Sandy , Limestone , Other

Are there any springs in the area? Yes , No x. If "yes" what is the distance from site?

Location of site from center of populated area to be served 3 miles; direction from community North.

I hereby agree to operate said refuse disposal area in accordance with Sections 69-4001 through 69-4010, R.C.M., 1947, and the State Department of Health and Environmental Sciences' regulations governing solid waste disposal.

Date December 10, 75 Signed John J. Daley

NOTE: This application must be renewed annually in compliance with Section 69-4004, Revised Codes of Montana, 1947.

TO BE FILLED OUT BY LOCAL BOARD OF HEALTH

Is this area being operated in compliance with sections 69-4001 through 69-4010, R.C.M., 1947: Yes , No .

Comments

Site approved by State Department of Health on Jan 9, 1976

By Radley L. Furse, R.S.

Signature
License No. issued for
this site on

(Please submit carbon copy to Montana State Department of Health and Environmental Sciences, Solid Waste Management Bureau, 1424 9th Avenue, Helena, Montana.)

1
City of Laurel
August 25, 1973
Solid Waste Section
(406) 449-2408

11 14
August 27, 1973

Re: Request for approval of landfill
site for the community of Laurel
Location: NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 33,
Township 1S, Range 24E.

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

This letter will serve as approval of the above-described site for
use as a refuse disposal area.

This approval is based upon a soils analysis prepared by the U.S.
Soil Conservation Service, Billings, and an on-site investigation by
Mr. Duane Robertson of this department.

Sincerely yours,

John S. Anderson, M.D.
Director

JSA:DLR:ao

cc: Mr. Robert Raundal, Administrator, Land Administration, Dept. of State
Lands, State Capitol, Helena
Mr. John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Jerry Jacoby, District Conservationist, Soil Conservation Service,
1629 Avenue D, Building B, Suite 3, Billings
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 205, Courthouse, Billings

City of Laurel

LAUREL, MONTANA

August 15, 1973

Mr. Terry Carmody
State Health Board
Helena, Montana

Dear Terry:

Re: Landfill

We are still struggling with a proposed landfill site in State Section 33, Twp 1 S Range 24 E. We have had soil interpretation from the Federal SCS and I'm enclosing copies of the pertinent pages from this report. Every thing East of the road along the ridge in the West part of the Section is usable.

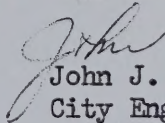
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The zerox copy of the map is poor because it was colored. They have told us in effect that every thing East of the roadway is in a different drainage and may be used for this purpose.

We are thinking of 20 acres along the County roads in the N W¹/₄ adjoining the 20 the County has in the extreme NW corner.

Thanking you, I am

Very truly yours,


John J. Daley
City Engineer

JJD/l

cc: file

Louis Yovetich, Mayor

1629 Avenue D, Building B, Suite 3, Billings, Montana 59102

August 1, 1973

John Dailey, City Engineer
Laurel, Montana

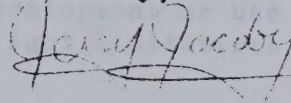
Dear Mr. Dailey,

This report includes soil limitations for trench-type sanitary landfills. Although only the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 33 is being considered at this time, the additional area maybe needed for future expansion.

Also included are examples of minimum cross-sections and nonerosive grades for two diversions if the decision is made to divert runoff water from the trench areas.

Assistance is available through the Yellowstone Conservation District for a land use plan. The plan may include diversion design, reseeding of trenched areas and future land use after the filling operations are completed. This assistance may be obtained by calling the U. S. Soil Conservation Service, Billings, Montana.

Sincerely,



Jerry Jacoby
District Conservationist

INTRODUCTION

This report is based on a standard soil survey. The soil mapping units are not always uniform but may include variations or inclusions as described in the official soil descriptions, which are on file at the Soil Conservation Service office.

The information in this report does not eliminate the need for on-site investigation for a specific development or land use. It can be used as a guide for planning more detailed on-site investigations.

Soils have limitations in their capacity for development for various uses, depending on their inherent characteristics such as depth, texture, slope, stoniness, permeability and others. These limitations are rated and expressed as slight, moderate, or severe. These are defined as follows:

1. Slight

These soils have few, if any, limitations for the use considered.

2. Moderate

These soils have one or more properties that limit their use. The limitation may be overcome by special measures or treatment. This will increase the cost of the development or use over the normal cost expected on soils with slight limitations.

3. Severe

These soils have one or more properties that seriously limit their use. It may be possible to correct these limitations, however, the cost will be high.



SOIL LIMITATIONS

TRENCH-TYPE SANITARY LANDFILLS

2 Ten Acre parcels
next to these roads

Section 33; T 1 S; R 24 E

SOIL LIMITATIONS

SLIGHT

MODERATE

SEVERE



Symbol	Name	Slope	Limitations
Cg	Clapper gravelly loam	7-15%	Slight
Es	Elso-Lohmiller Complex	15-35%	Severe: Shallow to shale and more than 25% slopes
Hs	Hilly gravelly land	15-35%	Moderate: Slopes more than 15%
Ke	Keiser silty clay loam	1-4%	Slight
La	Lambert silt loam	1-4%	Slight
Lb	Lambert silt loam	4-7%	Slight
Ld	Lambert silt loam	7-35%	Severe: Shallow and more than 25% slopes
Mt	McRae-Hysham loams	0-1%	Slight
My	Midway-Shale outcrop complex	variable	Severe: Shallow to shale
Sr	Shorey gravelly loam	4-7%	Slight
Th	Toluca clay loam	1-4%	Moderate: Permeability more than 2.0 in/hr
Yt	Yegen and Toluca soils	7-15%	Slight

Note: Soil limitation ratings are based on soil depth (5-6 feet) commonly investigated in making soil surveys.

Section 1: 1 1/2, 2 1/2, 3 1/2

SOIL LIMITATIONS

SLIGHT

MODERATE

SEVERE



Location	Depth	Soil	Limitation
1-1/2	1-1/2	Gravelly loam	SLIGHT
2-1/2	1-1/2	Gravelly loam	SLIGHT
3-1/2	1-1/2	Gravelly loam	SLIGHT
4-1/2	1-1/2	Gravelly loam	SLIGHT
5-1/2	1-1/2	Gravelly loam	SLIGHT
6-1/2	1-1/2	Gravelly loam	SLIGHT
7-1/2	1-1/2	Gravelly loam	SLIGHT
8-1/2	1-1/2	Gravelly loam	SLIGHT
9-1/2	1-1/2	Gravelly loam	SLIGHT
10-1/2	1-1/2	Gravelly loam	SLIGHT
11-1/2	1-1/2	Gravelly loam	SLIGHT
12-1/2	1-1/2	Gravelly loam	SLIGHT
13-1/2	1-1/2	Gravelly loam	SLIGHT
14-1/2	1-1/2	Gravelly loam	SLIGHT
15-1/2	1-1/2	Gravelly loam	SLIGHT
16-1/2	1-1/2	Gravelly loam	SLIGHT
17-1/2	1-1/2	Gravelly loam	SLIGHT
18-1/2	1-1/2	Gravelly loam	SLIGHT
19-1/2	1-1/2	Gravelly loam	SLIGHT
20-1/2	1-1/2	Gravelly loam	SLIGHT
21-1/2	1-1/2	Gravelly loam	SLIGHT
22-1/2	1-1/2	Gravelly loam	SLIGHT
23-1/2	1-1/2	Gravelly loam	SLIGHT
24-1/2	1-1/2	Gravelly loam	SLIGHT
25-1/2	1-1/2	Gravelly loam	SLIGHT
26-1/2	1-1/2	Gravelly loam	SLIGHT
27-1/2	1-1/2	Gravelly loam	SLIGHT
28-1/2	1-1/2	Gravelly loam	SLIGHT
29-1/2	1-1/2	Gravelly loam	SLIGHT
30-1/2	1-1/2	Gravelly loam	SLIGHT

Note: Soil limitation ratings are based on soil depth (2-6 feet).
Soil limitation ratings are based on soil depth (2-6 feet).

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

DATE:

1.

2.

3.

☒ Approval

☐ Note and Return

☐ Prepare reply

☐ As requested

☐ Comment

☐ Note and File

☐ Signature

☐ For your information

☐ Necessary Action

☐ Investigate

☐ See Me

☐ Per Conversation

REMARKS:

CAUREL Inspections

CAUREL. 622

CAUREL. 622

FROM:

mailed
6-23-92
oh



THE
END

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau

Solid Waste Program

(406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499

STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620



June 22, 1992

Jim Worthington, Director of Public Works
P.O. Box 10
Laurel, MT 59044

Subject: Landfill (License #24 & 203) and Transfer Site (#301
Expired) Inspections

Dear Jim:

On June 12, 1992, I inspected the former Laurel Landfill for closure, and the existing Transfer facility for compliance with the laws and rules of the State of Montana governing solid waste disposal. Enclosed are copies of my inspection reports.

The items marked "no" on the form are areas where violations were noted. On a separate page I have quoted the rule which was violated and an explanation of the specific problem. The operations at the transfer site, although unlicensed, looked good. Closure of the former landfill has progressed, but can not be officially closed because of the work that remains.

Thank you for your cooperation in the matter of this inspection. Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "E. Thamke".

Edward A. Thamke
Solid Waste Management Program

Enclosure: June 12, 1992 Inspection Reports.

cc: Mayor Bob Gauthier, P.O. Box 10, Laurel, MT 59044
Ted Kylander R.S., Yellowstone City-County Health Dept., P.O. Box 35033, Billings, MT 59107

File: Yellowstone County-City of Laurel Transfer Site, & City of Laurel Landfill
Path:H:\...\92inspec\Laurel.622

**SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT
LANDFILL CLOSURE**

Name of Site: City of Laurel Landfill

Date: June 12, 1992

License #: 24 & 203

Class: II

Location: Laurel

County: Yellowstone

Operator: Laurel Public Works Dept.

Address: P.O. Box 10
Laurel, MT 59044

Owner: City of Laurel

	Yes	No*
--	-----	-----

*No answers explained on Page Two

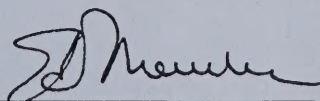
- | | | |
|---|----|----|
| 1. Minimum of Two (2) Feet Soil Cover on all Wastes: | | XX |
| 2. Soil Cover Meets Minimum Permeability Standard (1×10^{-3} centimeters/second): | XX | |
| 3. Surface Water Runoff Controlled: | | XX |
| 4. Positive Drainage For Waste Filled Areas: | | XX |
| 5. Site Revegetated: | | XX |
| 6. Access to Site Controlled: | XX | |
| 7. Other (Explained on Page Two) | | |

Control of Site: ☐ Signs ☒ Fences and Gates ☐ Supervision ☐ None

Proposed Use of Site: ☐ ☒ None

Person(s) Seen at Site: Dave Michael-Assistant Public Works Director

Signature of Inspector: _____



Edward A. Thamke
Solid Waste Management Program

Inspection Report
Page Two

1) **ARM 16.14.521(2)(a)**, - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least two feet (2') of approved earth cover material within one week after the final deposit of solid waste at any portion of the site.

Comments: I did not auger the areas that have been covered, however, there is an area with exposed waste without any cover at all.

3) **ARM 16.14.505(1)(e)**, - Drainage structures must be installed where necessary to prevent surface runoff from entering the disposal area.

Comments: The drainage is generally good, but the area of exposed waste lies directly in a drainage path.

4) During completion of the application and compaction of the two foot (2') of earth cover, the disposal area will be contoured to provide for positive drainage away from the waste disposal area.

Comments: Once the exposed waste area is finally covered, contouring should provide that water runs away from all areas containing waste.

5) The disposal site should be seeded in native grasses in order to prevent erosion and stabilize the cover material.



City of Current old Class II
Among debris left uncovered in
S.E. corner.

6/12/92 G.T.

City of Current Old Class II
Looking N-N.W. towards transfer
Site. 6-8" corner

6/12/92 G.T.

City of Council old class II
Looking S.S. down 6-8" cover
6/12/92 Ed.T

City of Council Transfer Site.
Shows where old asphalt is being
stockpiled for road base. Was location
of piles of shrimp, debris...
6/12/92 Ed.T.



Laurel Landfill (Class II)



2/4/92
LMD

inadequate
cover
S

Laurel Interim Transfer
Station / Landfill



2/4/92
LMD

Inadequate
cover
9

Laurel Class II Landfill
uneven surface



2/4/92
LMD

7

Laurel
Landfill
2/4/92

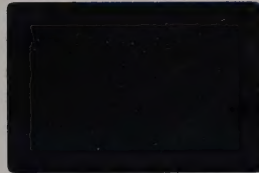
Color Slide



Color Slide



Color Slide



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau
Solid Waste Program

STAN STEPHENS, GOVERNOR (406) 444-1430

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

February 18, 1992

Jim Worthington, Director of Public Works
P.O. Box 10
Laurel, Montana 59044

Dear Mr. Worthington:

As you know, on February 4, 1992, Jon Dilliard and I inspected the Laurel Class II Landfill and the Laurel Interim Transfer Station for compliance with the rules and regulations of the State of Montana governing solid waste disposal. Enclosed you will find copies of our inspection reports.

The items marked "no" on the form are areas where violations were noted upon inspection. On a separate page, I have quoted the rules which were violated and an explanation of the specific problems. These violations need to be corrected immediately to bring your operation into compliance.

Overall, the landfill and transfer station looked good. It was apparent after reviewing your last inspection report (inspected November 21, 1991) that your operation has greatly improved. The only problems we saw were areas with inadequate cover and several depressions in the cover of the landfill. Water could collect in these depressions and seep into the buried waste, generating leachate. However, this can be corrected when you place the final cover over the landfill.

Thank you for meeting us out at the transfer station and landfill. We appreciate your efforts in this matter. Please do not hesitate to contact me or Jon if you have any questions or comments. Also, just as a little reminder, do not forget to send us your application for the permanent transfer station.

Sincerely,

A handwritten signature in dark ink, appearing to read "Lara M. Dando".

Lara M. Dando
Solid Waste Program

cc: Mayor Bob Gauthier, P.O. Box 10, Laurel, MT 59044
David Michael, Assistant Public Works Dir., P.O. Box 10, Laurel, MT 59044
Ted Kylander, R.S., P.O. Box 35033, Billings, MT 59107

Enclosures: Inspection Reports for Transfer Station and Landfill and Secure Load Rule

SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT

Location of Site: City of Laurel Landfill

Date: February 4, 1992

County: Yellowstone

Class: II

Operator: Laurel Public Works Department

Address: P.O. Box 10

Owner: City of Laurel

Laurel, MT

YES

NO

Explain No answers on Page Two

1. Burning Controlled: XX
2. Disposal Site Properly Located: XX
3. Dumping Confined to a Manageable Area: XX
4. Refuse Properly Covered After Each Operating Day: XX
5. Spreading and Compaction of Refuse Adequate: XX
6. Rodents and Insects Controlled: XX
7. Blowing Litter Controlled: XX (see note)
8. Access to Site Controlled: XX
9. Approach Road Properly Maintained: XX
10. Other (Explained on Page Two) N/A

Control of Site: X Signs X Fences and Gates X Supervision None

Equipment at Site: X Yes No

Type: Caterpillar Dozer

Person(s) Seen: David Michael, Jim Worthington, and attendant

Signature of Inspector: Lara M. Dando

Lara M. Dando

Jon Dilliard

#4) Refuse Properly Covered After Each Operating Day (Rule 16.14.521(2)(a)) - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved cover material at the end of each operating day.

Upon inspection, we found plastic, shingles, and construction debris uncovered or partially covered. All wastes should be covered by at least six (6) inches of cover material at the end of each operating day.

Note: #7) Blowing Litter Controlled (Rule 16.14.520(4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities.

Some portions of the outer perimeter fence contained litter. However, it did not appear to be a major problem. Picking up litter more often and adequately covering waste could help to prevent future litter problems.

running boards, nor shall any passenger ride on the fenders or running boards of a vehicle.

History: En. Sec. 109, Ch. 263, L. 1955; R.C.M. 1947, 32-21-112.

61-8-367. Riding in housetrailer. No person or persons may occupy a housetrailer while it is being moved upon a public highway unless the trailer is of a semitrailer design where some part of its own weight and that of its cargo rests upon or is carried by its towing unit through the use of a fifth-wheel type trailer hitch mounted on no less than a one-half ton rated truck.

History: En. Sec. 109.1, Ch. 263, L. 1955, as added by Sec. 1, Ch. 167, L. 1957; amd. Sec. 1, Ch. 21, L. 1975; R.C.M. 1947, 32-21-112.1.

Cross-References

"Dolly or converter gear" defined,
61-1-113.

"Housetrailer" defined, 61-1-501.

61-8-368. Opening and closing vehicle doors. No person shall open any door of a motor vehicle unless and until it is reasonably safe to do so without interfering with the movement of other traffic, nor shall any person leave a door open on a side of a vehicle available to moving traffic for a period of time longer than necessary to load or unload passengers.

History: En. Sec. 109.2, Ch. 263, L. 1955, as added by Sec. 1, Ch. 167, L. 1957; R.C.M. 1947, 32-21-112.2; amd. Sec. 7, Ch. 450, L. 1983.

61-8-369. Shooting from or across road or highway right-of-way. Except as provided in 87-2-803(4), no person shall shoot any firearm from or across the right-of-way of any state or federal highway or county road.

History: En. Sec. 110, Ch. 263, L. 1955; amd. Sec. 1, Ch. 25, L. 1974; R.C.M. 1947, 32-21-113; amd. Sec. 1, Ch. 214, L. 1985; amd. Sec. 1, Ch. 416, L. 1985.

Cross-References

Creating a hazard, 45-8-113.

Hunting — general restrictions, 87-3-101.

Restrictions on use of motor vehicles while hunting, 87-3-125.

61-8-370. Securing of load — requirement. A person operating a loaded vehicle on a public highway for the purpose of transporting solid waste as defined in 75-10-203, except a commercial motor vehicle or a vehicle transporting unprocessed agricultural products, shall attach, cover, or otherwise secure the load sufficiently to prevent littering or creating an obstruction dangerous to the public traveling on the highway.

History: En. Sec. 1, Ch. 374, L. 1991.

61-8-371. Operation of motor vehicle or off-highway vehicle below high-water mark on certain state or federal lands prohibited — exceptions. (1) Except as provided in subsections (2) and (3), a person may not operate a motor vehicle, as defined in 61-1-102, or an off-highway vehicle, as defined in 23-2-801, below the ordinary high-water mark, as defined in 23-2-301, of class I or class II waters, as defined in 23-2-301, that occurs on state or federal lands or below the ordinary high-water mark of class I waters flowing through private lands, within that portion of the streambed that is covered with water.

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO: *Phoo LL*
Jim SW

DATE: *11/29/91*

1. *DAVE DH*
2. *Jon JD*
Pat M
3. *Roger P* ~~*DAVE DH*~~ *DAVE DH*

- | | | |
|--|---|---|
| ☒ Approval | ☐ Comment | ☐ Necessary Action |
| ☐ Note and Return | ☐ Note and File | ☐ Investigate |
| ☐ Prepare reply | ☐ Signature | ☐ See Me |
| ☐ As requested | ☐ For your information | ☐ Per Conversation |

REMARKS: *Suspension Letter & Report*

for the City & County Landfill &

Transfer Station

Mailed 12/5/91 LL

[Signature]

FROM: _____

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Yellowstone
Co.

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

Solid & Hazardous Waste Bureau
Telephone (406) 444-1430

December 5, 1991

Jim Worthington
Director of Public Works
P.O. Box 10
Laurel, MT 59044

Subject: Laurel Landfill & Transfer Site Inspection.

Dear Jim:

On November 21, 1991, James Wilbur, David Haire & I inspected the Laurel Class II Landfill and the Laurel Interim Transfer Station for compliance with the laws and rules of the State of Montana governing solid waste disposal. Enclosed is a copy of our inspection report.

The items marked "no" on the forms are areas where violations were noted. On a separate pages I have quoted the rule which was violated and an explanation of the specific problems for each site. These violations need to be corrected immediately to bring your operation into compliance.

1) Clean up the large piles of refuse around the containers at the Transfer Site.

2) Clean up the debris in & around the Class III area at the Transfer Site. Currently no area for Class III wastes has been approved, however you can propose a Class III site in your upcoming application for a permanent Transfer Site.

3) The numerous piles of street sweeping sludge at the landfill need to be spread and compacted within a manageable area. Two feet of final soil cover must be maintained throughout the landfill prior to closure. If you utilize a new lift at the landfill, to dispose of the waste from around the containers at the transfer station, the two feet of final cover can be put down when you finish.

4) The litter that has blown onto the fences and into the adjoining properties must be picked up, and properly disposed of.

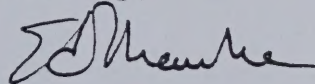
Page Two
City of Laurel Landfill & Transfer Site
Inspection Letter

5) Once you have cleaned up the Transfer Site and are confident you will no longer use the landfill, we will need a final closure plan for the City of Laurel Landfill that includes a groundwater monitoring program.

6) The license for the Laurel Interim Transfer Station expires on May 3, 1992. In order to ensure that the application for the permanent facility can be thoroughly evaluated and processed, you should be get the application out as soon as possible.

We were glad to be able to talk with you in person on our inspection visit and discuss the problems you are having. We are here to help provide any technical assistance you may need. Thank you for your cooperation in this matter and please do not hesitate to contact me if you have any questions.

Sincerely,



Edward A. Thamke
Solid Waste Program

Enclosure

cc: Mayor Bob Gauthier, P.O. Box 10, Laurel, MT 59044
Dave Michael, Assistant Public Works Director, P.O. Box 10,
Laurel, MT 59044
Ted Kylander, R.S., P.O. Box 35033, Billings, MT 59107

LAURCOVR.INS

SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT

Location of Site: City of Laurel Landfill

Date: 11/21/91

County: Yellowstone

Class: II

Operator: Laurel Public Works Department

Address: P.O. Box 10

Owner: City of Laurel

Laurel, MT

YES

NO

Explain No answers on Page Two

- | | | |
|--|-------------|----|
| 1. Burning Controlled: | XX | |
| 2. Disposal Site Properly Located: | XX | |
| 3. Dumping Confined to a Manageable Area: | | XX |
| 4. Refuse Properly Covered After Each Operating Day: | | XX |
| 5. Spreading and Compaction of Refuse Adequate: | | XX |
| 6. Rodents and Insects Controlled: | XX*See Note | |
| 7. Blowing Litter Controlled: | | XX |
| 8. Access to Site Controlled: | XX | |
| 9. Approach Road Properly Maintained: | XX*See Note | |
| 10. Other (Explained on Page Two) | | |

Control of Site: X Signs X Fences and Gates Supervision None

Equipment at Site: Yes X No

Person(s) Seen: Jim Worthington (Public Works Director), Dave Michael (Assistant Public Works Director), Sue Strand (Container Site Operator).

Signature of Inspectors:

Ed Thamke
Ed Thamke

James Wilbur
James Wilbur

David Haire
David Haire

#3) Dumping Confined to a Manageable Area (Rule 16.14.520(3)) - Dumping of solid waste shall be confined to areas within the disposal site that can be effectively maintained and operated in accordance with this rule.

The numerous piles of street sweeping sludge that has been dumped over the landfill surface is what I am referring to here. As we discussed, this type of material is considered class II waste, and should be disposed of accordingly.

#4) Refuse Properly Covered After Each Operating Day (Rule 16.14.521(2)(a)) - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved cover material at the end of each operating day.

Besides the piles of sludge mentioned in #3, there is a lot of exposed waste throughout the landfill, especially toward the south end. Also, there is a pile of concrete dumped in that area. All waste should be covered with at least six inches of approved cover material. There should be no visible refuse over any of the old working area.

#5) Spreading and Compaction of Refuse Adequate (Rule 16.14.521(2)(a)) - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved cover material at the end of each operating day.

Once again, this relates to the piles of sludge. If you end up creating another lift on the landfill to handle the buildup of waste at the container site, the piles of street sweeping sludge should be put into the working face and managed along with the other class II waste being spread, compacted and covered daily.

#6) Rodents and Insects Controlled (Rule 16.14.520(5)) - Flies and other insects, as well as rodents, shall be effectively controlled.

Control was more a factor of the weather, than good solid waste management at the Laurel landfill. If the amount of refuse we saw exposed in November, were exposed in July, it is likely that possible disease carrying scavengers, rodents and insects would be in abundance.

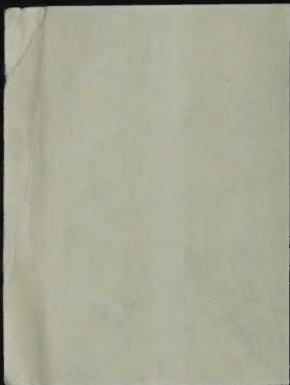
#7) Blowing Litter Controlled (Rule 16.14.520(4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities.

This is directly related to poor compaction and cover. The fences around the facility, and areas beyond the fences were loaded with litter. You need to regularly take the time to pick up all the litter, and clean the fences.

#9) Approach Road Properly Maintained (Rule 16.14.505(1)(b)) - Where public use of year-round access is contemplated, access roads and bridges must be capable of supporting loaded vehicles during all types of weather.

Looks like you could use some gravel on the approach when it gets wet.

gradual
in trench
!



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Yellowstone



STAN STEPHENS, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

FAX # (406) 444-2606

HELENA, MONTANA 59620

May 12, 1989

Jim Flisrand, Director
Laurel Public Works Department
P.O. Box 10
Laurel, MT 59044

Subject: Laurel Landfill Inspection

Dear Jim,

On May 3, 1989 I inspected the Laurel landfill for compliance with the laws and rules of the State of Montana governing solid waste disposal. Enclosed is a copy of my inspection report.

The items marked "no" on the form are areas where violations were noted. On a separate page I have quoted the rule which was violated and an explanation of the specific problem. These violations need to be corrected immediately to bring your operation into compliance.

As I discussed with you on the phone, one of my concerns was some of the materials going into your Group III waste trench. Items such as white goods, wood wastes, plastics, fiberglass, metals and yard wastes are not Group III wastes. The reason that the current Group III waste trench was abandoned as a Group II waste trench was because of groundwater problems. Even though the groundwater that was seeping into the trench is no longer noticeable, I do not recommend that the trench be used for Group II wastes again. However, since the landfill is almost out of space and you are already into area fill methods for your operations, I feel that clean untreated wood waste can still be disposed of in the trench along with the normal Group III wastes such as used vehicle tires, rock, dirt, brick, concrete and other inert materials. Because of the possibility that this trench may become water saturated again should the water return even after the trench is closed, I cannot see my way clear to allow the other materials to be put in the trench. Should the water return, these items may leach hazardous metals or chemicals into the water.

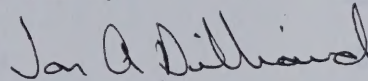
If you feel that the disposal of some of the larger bulky items, such as white goods and other metals, may not be possible with your current Group II waste operations you may want to contact some of the local metal recyclers to see if they may want the materials. At the moment, metal prices are high and some recyclers in other areas have started accepting these items. If that doesn't work you might be able to make arrangements

with the Billings landfill to take them.

As you requested, I have enclosed a solid waste management system license application with this inspection report.

Thank you for your cooperation in this matter and please do not hesitate to contact me if you have any questions.

Sincerely,



Jon A. Dilliard
Solid & Hazardous Waste Bureau
Telephone (406) 444-2821

Encl.

cc: City Council, City of Laurel

JD/ba

Date: May 3, 1989

Class: II

Operator: City of Laurel

Address: Laurel

Owner: City of Laurel

Address: Laurel

YES

NO

Explain No answers on Page Two

- | | | |
|--|----|----|
| 1. Burning Controlled: | XX | |
| 2. Disposal Site Properly Located: | XX | |
| 3. Dumping Confined to a Manageable Area: | XX | |
| 4. Refuse Properly Covered After Each Operating Day: | | XX |
| 5. Spreading and Compaction of Refuse Adequate: | XX | |
| 6. Rodents and Insects Controlled: | | XX |
| 7. Blowing Litter Controlled: | | XX |
| 8. Access to Site Controlled: | XX | |
| 9. Approach Road Properly Maintained: | XX | |
| 10. Other (Explained on Page Two) | | XX |
| Water pooling, Group III waste trench | | |

Control of Site: X Signs X Fences and Gates X Supervision None

Equipment at Site:	X Yes	No
1. Aerial bucket		
2. Backhoe		
3. Bulldozer		
4. Compactor		
5. Crane		
6. Excavator		
7. Grader		
8. Haul truck		
9. Loader		
10. Pile driver		
11. Road roller		
12. Skid steer loader		
13. Trencher		
14. Water pump		
15. Other		

Type: Bomag K401 Compactor

Size:

Person(s) Seen: Don Nelson (on-site), Jim Flisrand (phone conversation)

Signature of Inspector:

Jon A. Dilliard

#4) Refuse Properly Covered After Each Operating Day (Rule 16.14.521(2)(a))
- All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved cover material at the end of each operating day.

The fill area and the wet weather area had large areas where the soil cover was insufficient leaving a considerable amount of garbage showing through.

#6) Rodents and Insects Controlled (Rule 16.14.520(5)) - Flies and other insects, as well as rodents, shall be effectively controlled.

The exposed refuse allows insects and rodents access to the material. Without the proper 6 inches of daily cover on the garbage it is virtually impossible to control insects, rodents and other animals at the landfill.

#7) Blowing Litter Controlled (Rule 16.14.520(4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities.

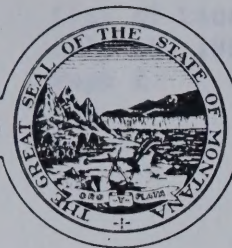
There was a considerable amount of litter on-site in the southeast corner and litter off-site beyond the fence in the same direction.

#10) There were several spots in the southwest corner of the landfill where water was pooling on the ground surface. These areas should be graded to drain away from the landfill so that the water will not have the opportunity to seep into the refuse buried below.

#10) The Group III waste trench had Group II waste in it, such as white goods, wood wastes, plastics, fiberglass, metals, and yard wastes.

DEPARTMENT OF HEALTH AND
ENVIRONMENTAL SCIENCES

BILLINGS REGIONAL OFFICE



TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

AIR QUALITY BUREAU (406) 657-2617
WATER QUALITY BUREAU (406) 657-2616
FOOD & CONSUMER SAFETY BUREAU (406) 657-2619
SOLID & HAZARDOUS WASTE BUREAU (406) 657-2618

July 25, 1988

City of Laurel
P.O. Box 10
Laurel, MT. 59044

Re: Refuse Disposal Site Inspection

Ladies & Gentlemen:

On July 1, 1988, I inspected the Laurel Landfill for compliance with the laws and rules of the State of Montana governing solid waste disposal. Enclosed is a copy of my inspection report.

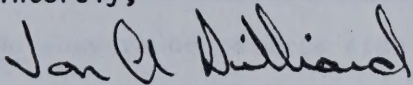
The items marked "no" on the form are areas where violations were noted. On the back I have quoted the rule which was violated and an explanation of the specific problem. These violations need to be corrected immediately to bring your operation into compliance.

While I was at the landfill, I also inspected the two groundwater test holes. Both holes had water at the ten foot level. Since the minimum allowable separation between Group II wastes and groundwater is ten feet, the site is limited to area fill type of operations where no trenching or dirt removal is performed. Even though area filling methods are acceptable for solid waste disposal, it can be rather labor intensive and costly to obtain cover soil. In most cases, the daily soil cover and final soil cover must be obtained from other areas on-site and moved to the disposal area. In your case, with the groundwater so close to the ground surface, it will be necessary to obtain your cover soil from off-site areas once your stockpiles of soil are used up. Because of this extremely limiting factor this site needs to have a detailed operation and maintenance plan to guide the future development of the site. It would also be to the City's advantage to begin serious deliberations into the future of solid waste disposal for Laurel.

City of Laurel
July 25, 1988
Page 2

Thank you for your cooperation in this matter and please do not hesitate to contact me if you have any questions.

Sincerely,



Jon A. Dilliard
Solid & Hazardous Waste Bureau
Billings Regional Office

encl.

cc Dennis Johnston, P.O. Box 30331, Billings, MT. 59107
Lou Ladas, R.S., Yellowstone City-County Health Dept., Box 35033, Billings
Jim Leiter, Solid & Hazardous Waste Bureau, Cogswell Bldg., Helena, 59620
File

SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT

Location of Site: Laurel Date: July 1, 1988
 County: Yellowstone Class: II
 Operator: Dennis Johnston dba Big Sky Haul-Away Address: Billings
 Owner: City of Laurel Address: _____

Explain No answers on reverse side

	<u>Yes</u>	<u>No</u>
1. Burning Controlled.	☒	☐
2. Disposal site properly located.	☒ (see note)	☐
3. Dumping confined to manageable area.	☒	☐
4. Refuse properly covered after each operating day.	☐	☒
5. Spreading and compaction of refuse adequate.	☒	☐
6. Rodents and insects controlled.	☐	☒
7. Blowing litter controlled.	☐	☒
8. Access to site controlled.	☒	☐
9. Approach road properly maintained.	☒	☐
10. Other (explained on reverse side). Class III Pit		☒

Control of Site:

☒ Signs ☒ Fences and gates ☒ Supervision ☐ None

Equipment at Site:

	<u>Yes</u>	<u>No</u>
Type: <u>John Deere Track Loader</u>	☒	☐
Size: <u>JD 755</u>		

Persons seen: Dennis Johnston; Pat DeVin

Signature of Inspector: _____

Jon A Dilliard
Jon Dilliard

ADMINISTRATIVE RULES OF MONTANA (ARM)

- 2) Disposal Site Properly Located (Rule 16.14.505) - 1(d) - Sites may be located in areas which will prevent the pollution of ground and surface waters and public or private water supply systems. 2) 10 to 20 feet minimum depth to groundwater below refuse. The water table at the site is currently holding at ten feet below the ground surface. This leaves the site available only for area fill disposal methods. No trenching or soil removal can be done.
- 4) Refuse Properly Covered After Each Operating Day (Rule 16.14.521(2)(a)) - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved earth cover material at the end of each operating day. The current fill area had refuse exposed in several areas indicating that six inches of cover had not been properly applied.
- 6) Rodents and Insects Controlled (Rule 16.14.520(5)) - Flies and other insects, as well as rodents, shall be effectively controlled. Without the six inches of soil cover being properly applied, the exposed refuse will attract rodents and insects. As these insects and rodents feed, breed and interact in the refuse, they spread disease pathogens among themselves and can become vectors of human disease.
- 7) Blowing Paper Controlled (Rule 16.14.520(4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities. During the inspection there was litter both on-site and off-site and along the highway. Other than the perimeter fence, no litter control measures were in place.
- 10) 75-10-221 MCA - The Class III waste pit had some Group II material mixed in. The Class III waste pit is limited to wood waste (not yard waste) and non-water soluble, essentially inert solids such as: brick, dirt, rock, concrete, brush, lumber, and vehicle tires. Household appliances and furniture are not considered Group III waste.

RECEIVED

JUL 26 1988

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU

DEPARTMENT OF HEALTH AND
ENVIRONMENTAL SCIENCES
BILLINGS REGIONAL OFFICE



TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

AIR QUALITY BUREAU (406) 657-2617
WATER QUALITY BUREAU (406) 657-2616
FOOD & CONSUMER SAFETY BUREAU (406) 657-2619
SOLID & HAZARDOUS WASTE BUREAU (406) 657-2618

November 23, 1987

Honorable Bob Gauthier, Mayor
City of Laurel
P.O. Box 10
Laurel, MT. 59044

Re: Laurel Landfill Inspection

Dear Mayor Gauthier:

On September 28, 1987, Scott Peterson, Solid & Hazardous Waste Bureau, and myself inspected the Laurel Landfill in response to a complaint that had been received. Enclosed is a copy of that inspection.

When Scott and I arrived at the landfill to investigate the complaint, we were both quite alarmed. Allowing groundwater to infiltrate garbage and leaving refuse uncovered are both serious violations. On several occasions in the past you were informed of the potential for high groundwater in this area and were instructed on how to check for it when each trench was excavated. I refer your attention to the June 10, 1982 and September 2, 1983 letters from John Geach, Solid & Hazardous Waste Bureau, which I have enclosed. This procedure is a condition of your license and must be strictly adhered to.

As a result of the problems discovered eight (8) trips were made to the landfill to review and monitor the situation and corrective measures being taken. Many hours were spent in discussing the problems and working on solutions. Now, almost two (2) months after that initial visit, the trench with the groundwater problem has been closed and the garbage capped off and a new trench with proper separation has been started. For now the groundwater problem has been solved, but it is up to you to see that it does not reoccur.

At one time, the Laurel Landfill was known for its high operational standards. If these recent problems noted in this inspection can be corrected and prevented from happening again your landfill could once again be thought of in that manner.



1. The purpose of this document is to provide information regarding the results of the investigation conducted by the Montana Department of Health and Environmental Sciences on the alleged contamination of the groundwater in the area of the proposed landfill.

2. The investigation was conducted by the Montana Department of Health and Environmental Sciences, and the results are as follows:

3. The investigation found that the groundwater in the area of the proposed landfill is contaminated with various chemicals, including but not limited to, lead, copper, and zinc.

4. The contamination is believed to be the result of the proposed landfill, and the Montana Department of Health and Environmental Sciences is recommending that the landfill be closed and the area be remediated.

5. The Montana Department of Health and Environmental Sciences is also recommending that the area be monitored for future contamination, and that the results of the monitoring be reported to the public.

6. The Montana Department of Health and Environmental Sciences is also recommending that the area be cleaned up, and that the results of the cleanup be reported to the public.

7. The Montana Department of Health and Environmental Sciences is also recommending that the area be protected from future contamination, and that the results of the protection be reported to the public.

8. The Montana Department of Health and Environmental Sciences is also recommending that the area be managed in a way that minimizes the risk to the public.

RECEIVED

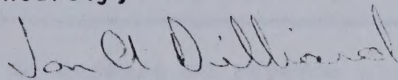
NOV 24 1987

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU

Honorable Bob Gauthier, Mayor
City of Laurel
November 23, 1987
Page 2

If you have any questions, please do not hesitate to contact me at 657-2620.

Sincerely,



Jon A. Dilliard, R.S.
Solid & Hazardous Waste Bureau
Billings Regional Office

encl.

cc Dennis Johnson, Big Sky Haul-Away, Box 30331, Billings, MT. 59107
Lou Ladas, R.S., Yellowstone City-County Health Dept., Billings, MT. 59107
Jim Leiter, Solid & Hazardous Waste Bureau, Helena, MT. 59620

SOLID WASTE MANAGEMENT SYSTEM INSPECTION REPORT

Location of Site: Laurel Landfill Date: 9/28/87
 County: Yellowstone Class: II
 Operator: Big Sky Haul-Away Address: Billings
 Owner: City of Laurel Address: Laurel

Explain No answers on reverse side

	<u>Yes</u>	<u>No</u>
1. Burning Controlled.	☒	☐
2. Disposal site properly located.	☒	☐
3. Dumping confined to manageable area.	☐	☒
4. Refuse properly covered after each operating day.	☐	☒
5. Spreading and compaction of refuse adequate.	☐	☒
6. Rodents and insects controlled.	☐	☒
7. Blowing litter controlled.	☐	☒
8. Access to site controlled.	☒	☐
9. Approach road properly maintained.	☒	☐
10. Other (explained on reverse side).		☒

Control of Site:

☒ Signs ☒ Fences and gates ☒ Supervision ☐ None

Equipment at Site:

	<u>Yes</u>	<u>No</u>
Type: <u>John Deere</u>	☒	☐
Size: <u>JD 755</u>		

Persons seen: Pat DeVir Scott Peterson

Signature of Inspector: Jon A. Dilliard
 Jon A. Dilliard

- #3. Dumping Confined to a Manageable Area (Rule 16.14.520 (3)) - Dumping of solid waste shall be confined to areas within the disposal site that can be effectively maintained and operated in accordance with this rule. The area being used for dumping was almost as wide as the trench itself. The refuse was being dumped on the top of recent fill areas and was then pushed over the edge into the trench. This created an extremely steep slope which could not be properly worked by the machinery. The dumping area must be kept as small as possible and limited to the capabilities of the machinery and site.
- #4. Refuse Properly Covered After Each Operating Day (Rule 16.14.521 (2)(a)) - All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved earth cover material at the end of each operating day. Because of the way the garbage was being dumped and handled, it had created a face of garbage (almost a wall) that could not be covered. I was told that this had occurred over several days, but it appeared large enough to be several weeks worth of refuse.
- #5. Spreading and Compaction of Refuse Adequate (Rule 16.14.521 (2)(a)) - Once again because of the working face that had been created, it was not possible to properly spread or compact the refuse. The working face of refuse should be at approximately a 3 to 1 slope so that the machinery can spread, compact and cover the face.
- #6. Rodents and Insects Controlled (Rule 16.14.520 (5)) - Flies and other insects, as well as rodents, shall be effectively controlled. Without the proper cover on the refuse it is impossible to control insects and rodents attracted to uncovered garbage. As mentioned above the refuse must be covered with six (6) inches of compacted soil cover.
- #7. Blowing Paper Controlled (Rule 16.14.520 (4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities. The landfill site, adjacent fields and along the highway are spotted with litter. This litter needs to be picked up and properly disposed of. To prevent this from being a continuing problem, I recommend that portable litter screening be purchased or constructed. These screens can be moved to surround the working area to prevent litter from escaping. I have already supplied Dennis Johnson and Jim Flisrand with sample plans for this type of screen. In order to provide adequate protection you would need a minimum of six (6) and preferably ten (10).
- #10. Other - 16.14.505 (2) - The trench in use at the time of the inspection had been excavated into and through groundwater bearing soil strata. This was evident by the seep areas that appeared around the trench. All Class II sites must maintain a minimum ten (10) foot separation between Group II wastes and underlying water. This minimum distance can be required to be greater depending on the type of soils present. Be sure to maintain at least this minimum in any future trench excavation.
- #10. Other - 16.14.520 (3) - Although Group III waste is not required to be covered at the end of each operating day, it must be covered periodically. The pile of Group III waste to the east of the storage buildings has been there for quite some time. It has not been used for awhile and has remained uncovered. There is also quite a bit of Group II waste such as a mattress and sofa in the pile. The Group II waste in the pile must be removed and properly disposed of and the remainder of the pile must be provided with adequate soil cover.

COMPLAINT

DATE 9/25/87 TIME 3:30 P.M.

RECEIVED BY Scott M. Peterson COMPLAINANT Anonymous

ADDRESS _____

PHONE NO. _____

NATURE OF COMPLAINT: WHO Laurel Landfill

WHAT Uncovered garbage and drifting refuse

WHEN Last two weeks

WHERE Laurel Landfill

WHY _____

REFERRED TO: Jon Dilliard FOR ACTION.

SUGGESTED ACTION: Investigate for authenticity, do landfill inspection

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DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

September 2, 1983

Albert Ehrlick, Mayor
City of Laurel
P. O. Box 10
Laurel, MT 59044

Dear Mayor Ehrlick,

Enclosed is a copy of my August 24 inspection of the Laurel landfill. As the inspection report indicates the site was found to be in full compliance with the state refuse disposal rules.

Jim Redmen indicated he had just completed excavating the last trench that can be dug in the original portion of the site. After this trench is completed the operation will be moved to the recently licensed southern portion of the site.

Some of the areas of this new portion contain high groundwater. In order to insure proper separation between the trench bottom and the groundwater table is maintained, this separation distance must be field checked as each trench is excavated. I've enclosed a copy of my June 10, 1982 letter which outlines the groundwater checking procedure we've required to be a condition of your site's license. When your operation moves into this new area, please be sure this groundwater checking procedure is implemented.

Our office appreciates the continuing commitment of your city council and staff in maintaining the high operational standards of your landfill

If you have any questions or if we may be of assistance to your solid waste program, please contact our office.

Sincerely,

JOHN C. GEACH
Solid Waste Management Bureau
Telephone: (406) 449-2408

JCG:vc
Encls.
cc: Jim Neely, R.S., County Sanitarian

REFUSE DISPOSAL SITE INSPECTION REPORT

Location of Site: Laurel Date: 8/24/83
 County: Yellowstone Class: II
 Operator: City of Laurel Address: Laurel
 Owner: City of Laurel Address: Laurel

Explain No answers on reverse side

YES NO

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Burning controlled. | ☒ | ☐ |
| 2. Disposal site properly located. | ☒ | ☐ |
| 3. Dumping confined to manageable area. | ☒ | ☐ |
| 4. Refuse properly covered after each operating day. | ☒ | ☐ |
| 5. Spreading and compaction of refuse adequate. | ☒ | ☐ |
| 6. Rodents and insects controlled. | ☒ | ☐ |
| 7. Blowing paper controlled. | ☒ | ☐ |
| 8. Access to site controlled. | ☒ | ☐ |
| 9. Approach road properly maintained. | ☒ | ☐ |
| 10. Other (explained on reverse side). | | ☐ |

Control of site:

☒ Signs ☒ Fences and gates ☒ Supervision ☐ None

Equipment at site:

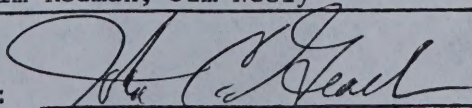
YES NO
☒ ☐

Type: Steel Wheel compactor & 955 Loader

Size:

Persons seen: Jim Redman, Jim Neely

Signature of Inspector:


 JOHN C. GEACH

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

January 27, 1983

Albert Ehrlick, Mayor
City of Laurel
P. O. Box 10
Laurel, Mt. 59044

Dear Mayor Ehrlick,

Enclosed is a copy of my January 5 inspection of the Laurel Class II sanitary landfill site. My comments regarding that inspection can be found on the back of the inspection form.

I've also enclosed several State Air Quality Bureau burning permit applications for your future use. Burning permits for clean wood wastes can be obtained by licensed landfill sites. These types of wastes include large bulky items such as tree trunks, untreated wood, and demolition materials that are free of insulation, shingles, linoleum, and other contaminants.

Hopefully, my comments will be self-explanatory, however, if you have any questions or if we may be of assistance to your solid waste program, please contact our office.

Sincerely,

A handwritten signature in cursive script, appearing to read "John C. Geach".

John C. Geach
Solid Waste Management Bureau
Telephone: (406) 449-2821

JCG:bh

Enclosure

cc: Jim Neely, R.S., City- County Health Dept., Courthouse, Room 309, Billings

REFUSE DISPOSAL SITE INSPECTION REPORT

Location of Site: Laurel Date: January 5, 1983
 County: Yellowstone Class: II
 Operator: City of Laurel Address: Laurel
 Owner: City of Laurel Address: Laurel

Explain No answers on reverse side

	YES	NO
1. Burning controlled.	☐	☒
2. Disposal site properly located.	☒	☐
3. Dumping confined to manageable area.	☒	☐
4. Refuse properly covered after each operating day.	☒	☐
5. Spreading and compaction of refuse adequate.	☒ (See Note)	☐
6. Rodents and insects controlled.	☒	☐
7. Blowing paper controlled.	☒	☐
8. Access to site controlled.	☒	☐
9. Approach road properly maintained.	☒	☐
10. Other (explained on reverse side).		☐

Control of site:

☒ Signs ☒ Fences and gates ☒ Supervision ☐ None

Equipment at site:

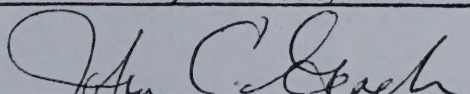
YES
☒ NO
☐

Type: Tractor, loader and steel wheeled compactor

Size:

Persons seen: Rick Musson, Jim Neely

Signature of Inspector:


 JOHN C. GEACH

ADMINISTRATIVE RULES OF MONTANA (ARM)

#1) Burning Controlled (Rule 16.14.520 (2)) - Open burning at all sites is prohibited unless a permit has been obtained from the department. The wood pile had been recently burnt even though a burning permit had not been obtained from the department. The site operator indicated this fire had been set by vandals. Access control at the site should help control vandal caused fires. Enclosed are several permit applications for your use in obtaining state air quality bureau burning permits in the future.

#5) Spreading and Compaction of Refuse Adequate (Rule 16.14.521 (2)(a)) All Class II sites using landfilling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved earth cover material at the end of each operating day. The recommended procedure of spreading and compacting refuse is to dump at the bottom of the sloped working face and to spread and compact up the face. This method has shown to provide better compaction and reduced equipment wear. You may wish to consider constructing a road into the bottom of the trench for the unloading of refuse at the toe of the working face. Dumping refuse within the trench will also provide shielding from the wind and will help to reduce blown litter.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

SOLID WASTE MANAGEMENT BUREAU

Room A201
COGSWELL BUILDING

TED SCHWINDEN, GOVERNOR



STATE OF MONTANA

(406) 449-2821

HELENA, MONTANA 59620

June 10, 1982

Albert Ehrlick, Mayor
City of Laurel
P. O. Box 10
Laurel, MT 59044

Dear Mayor Ehrlick,

Enclosed is a copy of my April 20 inspection of the Laurel landfill site. My comments regarding that inspection are found on the back of the inspection form.

I understand the city will be installing a high chain link fence around at least three sides of the landfill. This should greatly improve your litter control facilities. I would recommend you consider fencing the fourth side to provide additional litter and access control. You may wish to consider the use of portable litter fencing around the trench's active dumping area. Many sites in the state are using portable litter fencing to help confine blown litter to an easily manageable area. I've enclosed a construction diagram of this type of fencing for your reference.

We recently received a solid waste management system license application for your landfill expansion. Vic Andersen of this office has discussed the potential of high groundwater levels in this expansion area with John MacMartin. They have agreed that each trench excavated in the expansion area will be field tested for proper groundwater separation. The procedure for this testing will be to excavate a portion of the trench to its final depth. Then using a backhoe an additional ten foot hole will be excavated below the trench to determine the presence of any groundwater. If groundwater is encountered, the final depth of the trench will be adjusted to maintain the required ten (10) foot soils separation.

We will be requiring this procedure to be incorporated into the operation and maintenance schedule for your landfill. This procedure will also be made a condition of your new solid waste management system license.

SOLID WASTE MANAGEMENT SYSTEM

1. The purpose of this document is to provide information on the Solid Waste Management System (SWMS) and its components.

2. The SWMS is a system designed to manage solid waste from its generation to its final disposal.

3. The SWMS consists of several components, including waste collection, transportation, and disposal.

4. The SWMS is designed to be efficient, cost-effective, and environmentally sound.

5. The SWMS is a key component of the Department's efforts to improve solid waste management.

6. The SWMS is a system that is designed to be flexible and adaptable to changing circumstances.

7. The SWMS is a system that is designed to be user-friendly and easy to operate.

8. The SWMS is a system that is designed to be reliable and consistent in its performance.

9. The SWMS is a system that is designed to be secure and protected from unauthorized access.

10. The SWMS is a system that is designed to be scalable and able to handle increasing amounts of data.

11. The SWMS is a system that is designed to be easy to integrate with other systems.

12. The SWMS is a system that is designed to be easy to maintain and update.

13. The SWMS is a system that is designed to be easy to learn and use.

14. The SWMS is a system that is designed to be easy to troubleshoot and repair.

15. The SWMS is a system that is designed to be easy to document and report on.

16. The SWMS is a system that is designed to be easy to communicate and share information with.

17. The SWMS is a system that is designed to be easy to access and use from a variety of locations.

18. The SWMS is a system that is designed to be easy to integrate with other systems.

19. The SWMS is a system that is designed to be easy to maintain and update.

20. The SWMS is a system that is designed to be easy to learn and use.

21. The SWMS is a system that is designed to be easy to troubleshoot and repair.

22. The SWMS is a system that is designed to be easy to document and report on.

23. The SWMS is a system that is designed to be easy to communicate and share information with.

24. The SWMS is a system that is designed to be easy to access and use from a variety of locations.

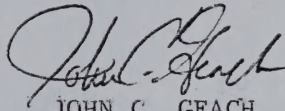
June 10, 1982

Albert Ehrlick, Mayor
City of Laurel
Page Two

We have begun processing your license application and we'll be able to make our final licensing decision after the required public comment period. This licensing procedure normally requires approximately six to eight weeks.

If you have any questions concerning this inspection or your expansion license application, please contact our office.

Sincerely,



JOHN C. GEACH
Solid Waste Management Bureau
Environmental Sciences Division

JCG:vc

Encls.

cc: L. John MacMartin, Planning Advisor, City of Laurel, P.O. Box 20, Laurel, MT
Jim Neely, R.S., Yellowstone Co. Sanitarian, Courthouse, Rm. 309, Billings, MT

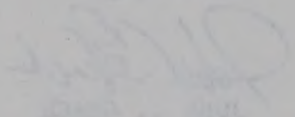
June 10, 1957

Albert Einstein, Mayor
City of Los Angeles
Page Two

We have been processing your license application and we will be able to make our final licensing decision after the required public hearing period. This licensing process normally requires approximately six to eight weeks.

If you have any questions concerning this information or your application license application, please contact our office.

Sincerely,



J. Lee McHenry

Chief, License Management Section
Environmental Services Division

cc: Mr. J. Lee McHenry
cc: Mr. J. Lee McHenry

cc: Mr. J. Lee McHenry, Planning Division, City of Los Angeles, 100 South Main Street, Los Angeles, California 90012
cc: Mr. J. Lee McHenry, Planning Division, City of Los Angeles, 100 South Main Street, Los Angeles, California 90012

REFUSE DISPOSAL SITE INSPECTION REPORT

Location of Site: Laurel Date: April 20, 1982
 County: Yellowstone Class: II
 Operator: City of Laurel Address: Laurel, MT
 Owner: City of Laurel Address: _____

Explain No answers on reverse side

	YES	NO
1. Burning controlled.	☒	☐
2. Disposal site properly located.	☒	☐
3. Dumping confined to manageable area.	☒	☐
4. Refuse properly covered after each operating day.	☒	☐
5. Spreading and compaction of refuse adequate.	☒	☐
6. Rodents and insects controlled.	☒	☐
7. Blowing paper controlled.	☐	☒
8. Access to site controlled.	☒	☐
9. Approach road properly maintained.	☒	☐
10. Other (explained on reverse side).		☒

Control of site:

☒ Signs ☒ Fences and gates ☒ Supervision ☐ None

Equipment at site:

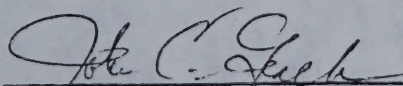
YES NO
☒ ☐

Type: Tractor Dozer

Size: _____

Persons seen: Jim Redman

Signature of inspector: _____


 JOHN C. GEACH

ADMINISTRATIVE RULES OF MOTNANA (ARM)

#7) Blowing Paper Controlled (Rule 16.14.520 (4)) - Effective means shall be taken to control litter at solid waste storage and disposal facilities. Some litter had blown onto the adjoining property on the east side of the site. Additional litter fencing should be installed on the site's perimeter and portable litter fencing should be used around the active dumping area.

#10) High groundwater in several areas of the site has resulted in trenches being excavated to within several feet of the water table. A minimum ten (10) foot separation distance between the bottom of the refuse trench and the top of the groundwater is required. As each new trench is excavated the groundwater level should be field tested to insure adequate separation distances are maintained.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59601

pp+
yellowstone

March 14, 1978

FIELD INVESTIGATION

Locality: Laurel Landfill

Date: February 22, 1978

Persons Seen: Dick Metzgar and Ed Stow

Dick Metzgar, Laurel Director of Public Works, Ed Stow, and I inspected the Laurel landfill on February 22, 1978. This will be the only report written on that inspection.

The site utilizes a trench-fill method. A small crawler dozer operated by private contractor maintains the site. No substantial violations of the solid waste laws were observed. On a windy day the site probably has a litter problem. A catch fence is at the site, but is not placed such that it would be effective.

Respectfully submitted,

LDM

Larry D. Mitchell, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

LDM/lb

March 14, 1978

FIELD INVESTIGATION

Location: (Name) Landfill

Date: February 22, 1978

Person(s): Dick Hickey and Ed Stow

Dick Hickey, Landfill Director of Public Works, Ed Stow, and I inspected the landfill on February 22, 1978. This will be the only report will be on this inspection.

The site utilizes a trench-fill method. A small transfer drier operated by private contractor maintains the site. No substantial violations of the solid waste laws were observed. On a windy day the site probably has a 115-120 ft. problem. A catch fence is at the site, but is not placed such that it would be effective.

Respectfully submitted,

LMM

Larry D. Mitchell, D.S.
Solid Waste Management Bureau
Environmental Sciences Division

LMV/jp

Yellowstone

Solid Waste Management Bureau
Old Board of Health Building
Helena, Montana 59601
Telephone: (406) 449-2821

March 29, 1976

Hon. Louis Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

Please find enclosed a field investigation conducted at the Laurel refuse disposal area. The field investigation was conducted by Duane Robertson and the undersigned of this office.

The Laurel landfill operation ranks among the best in the state. For this, responsible personnel should be commended. I would like to point out, however, that the wind fences appear to be rather ineffective where they are located. The paper blows over the dirt berm and then continues to sail right over the wind fences; thus the wind fences become ineffective. Consideration should be given to placing the wind fences closer to the particular area in which the landfill operation is commencing.

Continue to operate an approved landfill and if you have any questions, feel free to contact me at your convenience.

Sincerely,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/lb

Enclosure

cc: Ed L. Stow, County Sanitarian, Room 310-311, Courthouse, Billings
George Shackleton, M.D., County Health Officer, 205 Courthouse, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59601

March 29, 1976

Field Investigation

Locality: Laurel

Date: March 19, 1976

Persons Seen: Jim Redman, Caretaker-operator

On March 19, 1976, Duane Robertson and the undersigned inspected the Laurel refuse disposal area. The results of that inspection follow.

At the time of inspection, the disposal site was open and dumping was occurring. Refuse is being compacted and covered after each operating day; however, the wind in this particular area is quite strong and, as a result, there is a problem with blowing litter. There was no evidence of burning at the disposal site.

Recommendations:

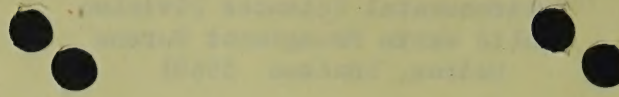
Rather than having the wind fences so far away from the fill area, they should be moved directly adjacent to the fill, in order to have maximum effectiveness. This way, blowing litter could be cleaned off the fences as necessary and the site would be much cleaner. The Laurel landfill operation is very effective. Measures should be taken to see that this operation remains as efficient and sanitary as is presently being done.

Respectfully submitted,

Paddy R. Trusler, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

PRT/lb

Reports to: Hon. Louis Yovetich, Mayor, City of Laurel, Laurel
Board of County Commissioners, Yellowstone County, County Courthouse,
Billings
Ed L. Stow, County Sanitarian, Room 310-311, Courthouse, Billings
George Sheckleton, M.D., County Health Officer, 205 Courthouse, Billings



Page 10

Final Report

Project No. 100

Date: May 10, 1955

Project Title: The General Electric Company

On May 10, 1955, the General Electric Company was visited by the author and the following information was obtained:

The General Electric Company is a large industrial corporation which is engaged in the manufacture of electrical machinery and equipment. The company is one of the largest in the world and has a long history of service to the public. The company is located in the city of Schenectady, New York.

General Information

The General Electric Company was founded in 1878 and has since that time been one of the leading industrial corporations in the world. The company is engaged in the manufacture of a wide variety of electrical machinery and equipment, including motors, generators, transformers, and switches. The company is also engaged in the manufacture of other types of machinery and equipment, such as pumps, compressors, and fans.

Company History

The General Electric Company was founded in 1878 by Thomas Edison, who was one of the most famous inventors in the world. Edison was a pioneer in the field of electricity and was responsible for many of the inventions that have made modern life possible.

Products

The General Electric Company manufactures a wide variety of electrical machinery and equipment. Some of the most important products of the company include motors, generators, transformers, and switches. The company also manufactures other types of machinery and equipment, such as pumps, compressors, and fans. The company's products are used in a wide variety of industries, including manufacturing, transportation, and power generation.

Solid Waste Management Bureau
1424 9th Avenue
Helena, Montana 59601
Telephone: 449-2821

January 29, 1975

Hon. Louis Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The Laurel sanitary landfill was inspected on January 14, 1975 by the undersigned. The enclosed field investigation report indicates the conditions found at the time of inspection.

The overall appearance and operation of the sanitary landfill are excellent.

If we can be of any assistance, feel free to contact us.

Sincerely,

Duane L. Robertson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

DLR:sss

Enclosure

cc: Board of County Commissioners, Yellowstone County, Courthouse, Billings
George Sheckleton, M.D., City-County Health Officer, Courthouse, Billings
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

Solid Waste Management Bureau
1414 9th Avenue
Helena, Montana 59601
Telephone: 449-3831

January 29, 1975

Hon. Louis Jovelich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Jovelich:

The Laurel sanitary landfill was inspected on January 14, 1975 by the
underground. The enclosed field investigation report indicates the conditions
found at the time of inspection.

The overall appearance and operation of the sanitary landfill are excel-
lent.

If we can be of any assistance, feel free to contact us.

Sincerely,

Duane L. Robertson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

DLR:sas

Enclosure

cc: Board of County Commissioners, Yellowstone County, Court House, Billings
George Sheckler, M.D., City-County Health Officer, Court House, Billings
Allen Bond, County Sanitarian, Room 105, Court House, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59601

January 29, 1975

Field Investigation

Locality: Laurel

Date: January 14, 1975

Persons Seen: Jim Redman, Caretaker

An inspection was made of the Laurel sanitary landfill on January 14, 1975 by the undersigned.

The disposal site is open Monday through Friday from 10:00 a.m. until 2:00 p.m., and Saturday from 10:00 a.m. until 4:00 p.m. A caretaker is at the site to direct the public where to place their refuse whenever the site is open. A separate area is being used to dump the wood waste products.

There is very little blowing litter present at the site, and an adequate job of compacting and covering the refuse is taking place. The overall appearance of this landfill operation is good.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

DLR:sss

Reports to: Hon. Louis Yovetich, Mayor, City of Laurel, Laurel
Board of County Commissioners, Yellowstone County, Courthouse, Billings
George Sheckleton, M.D., City-County Health Officer, Courthouse,
Billings
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Management Bureau
Helena, Montana 59601

January 29, 1975

Field Investigation

Locality: Laurel

Date: January 14, 1975

Persons Seen: Jim Redman, Caretaker

An inspection was made of the Laurel sanitary landfill on January 14, 1975 by the undersigned.

The disposal site is open Monday through Friday from 10:00 a.m. until 1:00 p.m., and Saturday from 10:00 a.m. until 4:00 p.m. A caretaker is at the site to direct the public where to place their refuse whenever the site is open. A separate area is being used to dump the wood waste products.

There is very little blowing litter present at the site, and an adequate job of compacting and covering the refuse is taking place. The overall appearance of this landfill operation is good.

Respectfully submitted,

Diane L. Robertson, R.S.
Solid Waste Management Bureau
Environmental Sciences Division

DLM:ss

Reports to: Hon. Louis Yovetich, Mayor, City of Laurel, Laurel
Board of County Commissioners, Yellowstone County, Court House, Billings
George Shekleton, M.D., City-County Health Officer, Court House, Billings
Allan Bond, County Sanitarian, Room 202, Court House, Billings

Solid Waste Section
1424 9th Avenue
Helena, Montana 59601
Telephone: 449-2821

December 28, 1973

Hon. Louis Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

A visit was made to the new Laurel sanitary landfill on December 12, 1973 by the undersigned.

The appearance and operation of the disposal site are very good.

The recommendation that is made in the enclosed field investigation report is just a thought that may help to make the site easier to operate.

If we can be of any assistance, feel free to contact us.

Sincerely,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

DLR:ao

Enclosure

cc: E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

Solid Waste Section
1424 5th Avenue
Helena, Montana 59601
Telephone: 449-3251

December 28, 1973

Hon. Louis Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich: A visit was made to the new Laurel sanitary landfill on December 12, 1973 by the undersigned.

The appearance and operation of the disposal site are very good. The recommendation that is made in the enclosed field investigation report is just a thought that may help to make the site easier to operate.

If we can be of any assistance, feel free to contact us.

Sincerely,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

Enclosure
BRL:ao

cc: E. C. Hall, R.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 202, Courthouse, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Section
Helena, Montana 59601

December 28, 1973

Field Investigation

Locality: Laurel

Date: December 12, 1973

Persons Seen: John Daley, City Engineer

An inspection was made of the Laurel sanitary landfill on December 12, 1973 by the undersigned.

Hours of operation are from 10:00 a.m. until 2:00 p.m. Monday through Friday, and from 9:00 a.m. until 3:00 p.m. on Saturday.

A pit 50 feet wide, 15 feet deep, and 200 feet long has been dug at the new site. Both the Laurel collection vehicle and the private vehicles are dumping the refuse right in the bottom of the trench. The refuse is being compacted and covered each day the disposal site is open.

A portable wind fence has been set at the downwind end of the trench to catch the blowing paper. The loose paper that is collected at the site is picked up and compacted and covered on a daily basis.

Recommendations:

1. The site may be easier to operate by backing all the traffic into the trench from one end and then start landfilling on the northwest end, using a 3:1 slope. Have the public deposit their refuse at the toe of the slope and compact and cover the refuse up this slope each day, filling the trench from the northwest to the southeast until it is completed.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

DLR:ao

Reports to: Hon. Louis Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

December 28, 1973

Field Investigation

Locality: Laurel

Date: December 12, 1973

Persons Seen: John Bailey, City Engineer

An inspection was made of the Laurel sanitary landfill on December 12, 1973 by the undersigned.

Hours of operation are from 10:00 a.m. until 2:00 p.m. Monday through Friday, and from 9:00 a.m. until 3:00 p.m. on Saturday.

A pit 50 feet wide, 15 feet deep, and 200 feet long has been dug at the new site. Both the Laurel collection vehicle and the private vehicles are dumping the refuse right in the bottom of the trench. The refuse is being compacted and covered each day the disposal site is open.

A portable wind fence has been set at the downwind end of the trench to catch the blowing paper. The loose paper that is collected at the site is picked up and compacted and covered on a daily basis.

Recommendations:

1. The site may be easier to operate by backing all the traffic into the trench from one end and then start landfilling on the northwest end, using a 3:1 slope. Have the public deposit their refuse at the toe of the slope and compact and cover the refuse up this slope each day, filling the trench from the northwest to the southeast until it is completed.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

DLR:ao

Reports to: Hon. Louis Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

4 RK

September 4, 1973

Solid Waste Section
(406) 449-2408

Field Investigation

Locality: Laurel

Date: August 16, 1973

September 4, 1973

An inspection was made of the Laurel sanitary landfill on August 16, 1973 by the undersigned.

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The Laurel sanitary landfill was inspected on August 16, 1973 by the undersigned.

The appearance of the landfill operation is not as good as it should be, due to the refuse not being completely covered at the end of each operating day. Except for the amount of soil cover, the rest of the landfill operation is very good.

If we can be of any assistance, feel free to contact us.

Sincerely yours,

Duane L. Robertson, R.S.
Solid Waste Section

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, R.S., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 205, Courthouse, Billings

DLR:ao

Enclosure

cc: E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 205, Courthouse, Billings

Solid Waste Section
(Room 449-2408)

September 4, 1973

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The Laurel sanitary landfill was inspected on August 16, 1973 by the undersigned. The appearance of the landfill operation is not as good as it should be, due to the refuse not being completely covered at the end of each operating day. Except for the amount of soil cover, the rest of the landfill operation is very good.

If we can be of any assistance, feel free to contact us.

Sincerely yours,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

DLR:ao

Enclosure

cc: E. C. Hall, M.D., City Health Officer, Box 127, Laurel
Allen Bond, R.S., County Sanitarian, Room 202, Courthouse, Billings

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Section
Helena, Montana 59601

September 4, 1973

Field Investigation

Locality: Laurel

Date: August 16, 1973

An inspection was made of the Laurel sanitary landfill on August 16, 1973 by the undersigned.

The disposal site is open from 12:00 noon until 2:00 p.m. Monday through Friday, and 9:00 a.m. to 3:00 p.m. on Saturday.

Refuse is being compacted and covered each day the disposal site is open. The appearance of the disposal site is not too good because there is not enough soil cover being used and much of the refuse is still showing at the end of the operating day.

Recommendations:

1. Use enough soil cover so that all the refuse is covered at the end of each day of operation.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section

DLR:ao

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 205, Courthouse, Billings

September 4, 1973

Field Investigation

Locality: Laurel

Date: August 16, 1973

An inspection was made of the Laurel sanitary landfill on August 16, 1973 by the undersigned.

The disposal site is open from 12:00 noon until 2:00 p.m. Monday through Friday, and 9:00 a.m. to 3:00 p.m. on Saturday.

Refuse is being compacted and covered each day the disposal site is open. The appearance of the disposal site is not too good because there is not enough soil cover being used and much of the refuse is still showing at the end of the operating day.

Recommendations:

1. Use enough soil cover so that all the refuse is covered at the end of each day of operation.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section

DLR:so

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, R.S., County Sanitarian, Room 202, Courthouse, Billings

Yellowstone

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SERVICES
Environmental Sciences Division
Solid Waste Section
Helena, Montana

January 25, 1973

Field Investigation

Locality: Laurel

and Environmental Sciences

XXXXXXXXXXXXX
Director

Person Seen: Allen Bond, County Sanitarian

January 26, 1973

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

An inspection was made at the Laurel city sanitary landfill on January 11, 1973 by the undersigned.

Even though no coverage had taken place at the site for several days due to very cold weather, I know that the City of Laurel normally runs a fine sanitary landfill.

We would still like to see the city and county get together on one landfill for the area. Operating two sites that close together is a very poor economic arrangement.

A portable fence next to the dumping area would be a very valuable asset to this disposal site. On both occasions that I have inspected, the wind has been blowing very hard.

If you have any questions or comments regarding this report, feel free to contact this office.

Sincerely yours,

Duane L. Robertson, R.S.
Solid Waste Section
Environmental Sciences Division

DLR:ao
Enclosure

cc: E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

cc: E. C. Hall, M.D., City Health Officer, Box 127, Laurel
Allen Bond, County Sanitarian, Room 202, Courthouse, Billings
Enclosure
DLR:ao

Environmental Sciences Division
Solid Waste Section
Duane L. Robertson, R.S.

Sincerely yours,

If you have any questions or comments regarding this report,
feel free to contact this office.

A portable fence next to the dumping area would be a very valuable
asset to this disposal site. On both occasions that I have inspected,
the wind has been blowing very hard.

We would still like to see the city and county get together on one
landfill for the area. Operating two sites that close together is a
very poor economic arrangement.

Even though no coverage had taken place at the site for several
days due to very cold weather, I know that the City of Laurel normally
runs a fine sanitary landfill.

An inspection was made of the Laurel city sanitary landfill on
January 11, 1973 by the undersigned.

Dear Mayor Yovetich:

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

and Environmental Sciences

Director
XXXXXXXXXX

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Solid Waste Section
Helena, Montana

January 25, 1973

Field Investigation

Locality: Laurel

Date: January 11, 1973

Persons Seen: Allen Bond, County Sanitarian

An inspection was made at the Laurel city sanitary landfill by Allen Bond, County Sanitarian, and the undersigned on January 11, 1973.

The refuse at the site had not been compacted or covered for approximately five days because of the inclement weather. There is a problem of blowing litter at the disposal site.

Recommendations:

1. Construct a portable fence that can be placed at the working face in order to control the litter problem.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section

DLR:ao

Enclosures (wind fence)

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

January 25, 1973

Field Investigation

Locality: Laurel

Date: January 11, 1973

Persons Seen: Allen Bond, County Sanitarian

An inspection was made at the Laurel city sanitary landfill by Allen Bond, County Sanitarian, and the undersigned on January 11, 1973. The refuse at the site had not been compacted or covered for approximately five days because of the inclement weather. There is a problem of blowing litter at the disposal site.

Recommendations:

1. Construct a portable fence that can be placed at the working face in order to control the litter problem.

Respectfully submitted,

Duane L. Robertson, R.S.
Solid Waste Section

DLR:an

Enclosures (wind fence)

Report to: Hon. Louis H. Yovetich, Mayor, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Allen Bond, County Sanitarian, Room 205, Courthouse, Billings

and Environmental Sciences

XXXXXXXXXXXX

Director

August 29, 1972

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The Laurel landfill was inspected on August 18, 1972 by Mr. Eddy Crowley of this office. A copy of his report is included with this letter.

According to Mr. Crowley's report, the former Laurel disposal site has been abandoned by the City of Laurel and they are now operating a disposal site in a new location.

This operation was inspected and found to lack adequate cover material. This site is also an unapproved disposal site by this office. In order to become approved, it must be officially inspected by personnel from this office, checked for groundwater levels and sub-surface soil types. If Laurel continues to operate a disposal site other than the former disposal site, this office wishes to inspect such.

In regard to the former disposal site, this office discussed the situation with the county commissioners. They were informed that they must comply with state laws and regulations and they indicated that they were going to rectify the situation.

This office recommends that the City of Laurel continue to try and negotiate with the county commissioners on a joint disposal site operation. It is also recommended that if this agreement cannot be reached, the City of Laurel discuss the possibility of hauling the Laurel refuse to the Billings disposal site.

If there are any questions or comments concerning this report, please feel free to contact this office.

Sincerely yours,

Terrence D. Carmody, Project Coordinator
Solid Waste Program
Environmental Sciences Division

TDC:ao

Enc.

cc: John J. Daley, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel

and Environmental Sciences

August 29, 1972

Director

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

The Laurel landfill was inspected on August 18, 1972 by Mr. [Name] of this office. A copy of his report is included with this letter.

According to Mr. Crowley's report, the former Laurel disposal site has been abandoned by the City of Laurel and they are now operating a disposal site in a new location.

This operation was inspected and found to lack adequate cover material. This site is also an unapproved disposal site by this office. In order to become approved, it must be officially inspected by personnel from this office, checked for groundwater levels and surface soil types. If Laurel continues to operate a disposal site other than the former disposal site, this office wishes to inspect such.

In regard to the former disposal site, this office discussed the situation with the county commissioners. They were informed that they must comply with state laws and regulations and they indicated that they were going to rectify the situation.

This office recommends that the City of Laurel continue to try and negotiate with the county commissioners on a joint disposal site operation. It is also recommended that if this agreement cannot be reached, the City of Laurel discuss the possibility of having the Laurel refuse to the fillings disposal site.

If there are any questions or comments concerning this report, please feel free to contact this office.

Sincerely yours,

Terrence D. Canady, Project Coordinator
Solid Waste Program
Environmental Sciences Division

Enc.
TDC:ao

cc: John T. Bailey, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel

and Environmental Sciences

XXXXXXXXXXXX
Director

August 29, 1972

Board of County Commissioners
Yellowstone County
County Courthouse
Billings, Montana 59101

Gentlemen:

The inspection of the Laurel refuse disposal site was made by Mr. Eddy Crowley of this office on August 18, 1972. This situation was also discussed with you gentlemen on the same date. A copy of the site inspection report is included with this letter.

The disposal site is not in compliance with Montana's solid waste disposal laws and regulations. The refuse at the site has not been compacted or covered for at least two weeks. If the county is not going to operate a joint disposal site with the City of Laurel and they wish to operate their own site, then they must comply with the solid waste laws and regulations. They must compact and cover the refuse each day that the disposal site is used.

Mr. Carlson indicated that the county was going to take care of the site and possibly operate their own site there if they do not make an agreement with Laurel. This office recommends that the county have an agreement with Laurel so that there is only one site in the area. However, if the county chooses to operate their own site, along with a plan for the remainder of the county, this office is willing to give all the assistance that we can.

If there are any questions or comments concerning this report, please feel free to contact this office.

Sincerely yours,

Terrence D. Carmody, Project Coordinator
Solid Waste Program
Environmental Sciences Division

TDC:ao
Enc.

and Environmental Sciences

Director
XXXXXXXXXX

August 29, 1973

Board of County Commissioners
Yellowstone County
County Courthouse
Billings, Montana 59101

Gentlemen:

The inspection of the Laurel refuse disposal site was made by Mr. Eddy Crowley of this office on August 18, 1973. This situation was also discussed with you gentlemen on the same date. A copy of the site inspection report is included with this letter.

The disposal site is not in compliance with Montana's solid waste disposal laws and regulations. The refuse at the site has not been compacted or covered for at least two weeks. If the county is not going to operate a joint disposal site with the City of Laurel and they wish to operate their own site, then they must comply with the solid waste laws and regulations. They must compact and cover the refuse each day that the disposal site is used.

Mr. Carlson indicated that the county was going to take care of the site and possibly operate their own site there if they do not make an agreement with Laurel. This office recommends that the county have an agreement with Laurel so that there is only one site in the area. However, if the county chooses to operate their own site, along with a plan for the remainder of the county, this office is willing to give all the assistance that we can.

If there are any questions or comments concerning this report, please feel free to contact this office.

Sincerely yours,

Terrence D. Ginnady, Project Coordinator
Solid Waste Program
Environmental Sciences Division

Enc.
TWC:ao

MONTANA STATE DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Helena, Montana

August 29, 1972

Field Investigation

Locality: Laurel

Date: August 18, 1972

Persons Seen: Mr. John Daley, City Engineer

Old City-County Disposal Site: (Property officially owned by the county)

The refuse has not been compacted or covered for two weeks. The disposal site has been completely abandoned by the city, but county residents are still dumping all their refuse at the old disposal site. The city residents still occasionally dump items such as tree limbs at the site.

When the city was operating the site during the last year or so, the city had a lease agreement with the county on the site. The county people could dump and would not be charged at the gate. However, the county did pay the city for this privilege. For the past three or four months this spring, there has not been a lease signed on this property. When the City of Laurel presented their new lease agreements that they needed for operating the site, the county would not agree to sign. The new agreement was that the city needed more money from the county.

The city is dumping garbage in a new disposal site which is located out by the airport. It is in an old gravel pit and the area is very close to a high water table area, but they are trying to stay above the water table and have not reached it yet. It was strongly recommended to Mr. Daley that they leave at least four feet of virgin soil between the refuse and the water.

There is not public dumping at this disposal site; only the city packer truck is dumping there. It is being compacted and covered daily, except for just recently when the machine the city owns had a starter failure and the tractor was inoperable for two or three days. The amount of cover material was inadequate, but Mr. Daley stated that this would be rectified since their machine is now working.

All the dumping at the old disposal site is coming from rural county residents. City residents do go to the disposal site and some of them may be dumping garbage, but the majority of them are dumping such items as tree limbs, grass cuttings, and junked material. The majority of the city people are not dumping garbage here because their garbage is being picked up by the city.

August 29, 1973

Field Investigation

Location: Laurel

Date: August 16, 1973

Personnel: Mr. John DeLong, City Engineer

Old City-Country Disposal Site: (Property officially owned by the county)

The refuse has not been compacted or covered for two weeks. The disposal site has been completely abandoned by the city, but county residents are still dumping all their refuse at the old disposal site. The city residents still occasionally dump items such as tires at the site.

When the city was operating the site during the last year or so, the city had a lease agreement with the county on the site. The county people could dump and would not be charged at the site. However, the county did pay the city for this privilege. For the past three or four months this privilege has not been a lease signed on this property. When the City of Laurel presented their new lease agreement that they needed for operating the site, the county would not agree to sign. The new agreement was that the city needed more money from the county.

The site is dumping refuse in a new disposal site which is located east of the airport. It is an old gravel pit and the area is very close to a high water table area. The site was being to dump above the water table and have not been at it yet. It was strongly recommended to Mr. DeLong that they leave at least four feet of virgin soil between the refuse and the water.

There is not public dumping at this disposal site, only the city people dump at this site. It is being compacted and covered daily, except for just recently when the machine the city owned had a motor failure and the operator was incapable for two or three days. The amount of cover material was inadequate, but Mr. DeLong stated that this would be rectified since their machine is now working.

All the dumping at the old disposal site is coming from rural county residents. City residents do go to the disposal site and some of them may be dumping garbage, but the majority of them are dumping such items as tires, lawn mowers, and junked material. The majority of the city people are not dumping garbage here because their garbage is being picked up by the city.

Laurel
Page 2
August 29, 1972

Mr. Daley indicated that the City of Laurel is quite willing to come to some type of agreement with the county commissioners if they are willing to pay their fair share.

Respectfully submitted,

Eddy A. Crowley, Environmental Engineer
Solid Waste Program

EAC:ao

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
John J. Daley, City Engineer, City of Laurel, Laurel
Board of County Commissioners, Yellowstone County, Courthouse, Billings
E. C. Hall, M.D., City Health Officer, Box 157, Laurel

Mr. Bailey indicated that the City of Lamar is quite willing to come to some type of agreement with the county commissioners if they are willing to pay their fair share.

Respectfully submitted,

Edgar A. Crowley, Environmental Engineer
Solid Waste Program

Enclosure

Report to: Hon. Louis A. Novotich, Mayor, City of Lamar, Lamar
John J. Bailey, City Engineer, City of Lamar, Lamar
Board of County Commissioners, Yellowstone County, Court House, Billings
E. C. Hall, M.D., City Health Officer, Box 137, Lamar

AND ENVIRONMENTAL SCIENCES

XXXXXXXXXXXX

Director

January 28, 1972

Hon. Louis M. Yovetich
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

Mr. Eddy Crowley of this office inspected the Laurel refuse disposal site on January 19, 1972. A copy of his report is included with this letter.

This office was very pleased to hear that Laurel is now operating only one disposal area in their site and disposing properly of all the refuse that enters the site.

Laurel has had a decent refuse disposal site, and it appears that they are continuing to improve their operation by learning from their past experience.

Sincerely yours,

Benjamin F. Wake, Administrator
Division of Environmental Sciences
Bureau of Air Quality

BFW:EAC:ao

Enclosure

cc: Mr. John J. Daley, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, City of Laurel, Box 157, Laurel
Mr. Steve Duganz, County Sanitarian, Courthouse, Billings

AND ENVIRONMENTAL SCIENCES

Director

January 18, 1971

Mr. Louis H. Foverick
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Foverick:

Mr. Billy Crowley of this office inspected the Laurel refuse
disposal site on January 15, 1971. A copy of his report is included
with this letter.

This office was very pleased to hear that Laurel is now operating
only one disposal site in their area and disposing property of all
the refuse that enters the area.

Laurel has had a decent refuse disposal site, and it appears
that they are continuing to improve their operation by learning
from their past experience.

Sincerely yours,

Benjamin F. Wake, Administrator
Division of Environmental Sciences
Bureau of Air Quality

REV:EAC:ao

Enclosure

cc: Mr. John J. Haley, City Engineer, City of Laurel, Laurel
E. C. Hall, R.D., City Health Officer, City of Laurel, Box 157, Laurel
Mr. Steve Dugan, County Sanitarian, Court House, Billings

MONTANA STATE DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Environmental Sciences Division
Helena, Montana

January 28, 1972

Field Investigation

Locality: Laurel

Date: January 19, 1972

Persons Seen: Mr. John Daley, City Engineer, and Mr. Steve Duganz, Sanitarian

Disposal Site:

The railroad is no longer hauling demolition lumber to the disposal site. They are going to dispose of this material in their own incinerator.

Laurel is now maintaining one area at their disposal site. All the refuse coming into the site is compacted and buried daily. The operator at the site indicated that he was not having any trouble obtaining cover material from the nearby stockpiles.

Respectfully submitted,

Eddy A. Crowley, Environmental Engineer
Solid Waste Program

EAC:ao

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
Mr. John J. Daley, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., City Health Officer, City of Laurel, Box 157, Laurel
Mr. Steve Duganz, County Sanitarian, Courthouse, Billings

January 18, 1972

Field Investigation

Location: Laramie

Date: January 18, 1972

Persons Present: Mr. John Bailey, City Engineer, and Mr. Steve Dugan, County Engineer

Disposal Site:

The railroad is no longer handling demolition lumber to the disposal site. They are going to dispose of this material in their own incinerator.

Laramie is now maintaining one area at their disposal site. All the refuse coming into the site is compacted and buried daily. The operator at the site indicated that he was not having any trouble obtaining cover material from the nearby stockpiles.

Respectfully submitted,

Bobby A. Crowley, Environmental Engineer
Solid Waste Program

Enclosure

Reports to: Hon. Louis E. Fovelich, Mayor, City of Laramie, Laramie
Mr. John J. Bailey, City Engineer, City of Laramie, Laramie
Mr. C. E. Hall, R.D., City Health Officer, City of Laramie, Box 137, Laramie
Mr. Steve Dugan, County Engineer, Cheyenne, Wyoming

Yellowstone

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION & WELFARE
Division of Environmental Sanitation
Bureau of Solid Waste Management

August 23, 1971

Field Investigation

Laurel, Montana

August 12, 1971

September 2, 1971

Mr. Louis M. Yovetich, Mayor
City of Laurel
Laurel, Montana 59044

Enclosure

The refuse disposal area serving Laurel, Montana was observed on August 12, 1971, by Mr. Eddy Crowley of this office. A copy of his report is enclosed with this letter.

Hon. Louis M. Yovetich, Mayor
City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The refuse disposal area serving Laurel, Montana was observed on August 12, 1971, by Mr. Eddy Crowley of this office. A copy of his report is enclosed with this letter.

We are pleased to note that the refuse is being compacted and buried daily and that there is no burning. We are concerned about the burning of wood debris. Before this is done, all the old tires and garbage should be separated from this debris. We hope that this can be worked out so as to handle all of these wastes properly.

If there are any questions or comments concerning this report, please feel free to contact this office.

Yours very truly,

Claiborne W. Brinck, P.E., Director
Division of Environmental Sanitation

ENCLOSURE

CWB:ao

Report

Enclosure

cc: John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Steve Duganz, Sanitarian, Courthouse, Billings

September 1, 1971

Hon. Linda M. Yovetich, Mayor
City of Laurel
Laurel, Montana 59044

Dear Mayor Yovetich:

The refuse disposal area serving Laurel, Montana was
observed on August 12, 1971, by Mr. Eddy Crowley of this office.
A copy of his report is enclosed with this letter.

We are pleased to note that the refuse is being compacted
and buried daily and that there is no burning. We are concerned
about the burning of wood debris. Before this is done, all the
old tires and garbage should be separated from the debris. We
hope that this can be worked out so as to handle all of these
wastes properly.

If there are any questions or comments concerning this report,
please feel free to contact this office.

Yours very truly,

Clairborne W. Brink, P.E., Director
Division of Environmental Sanitation

CWB:so

Enclosure

cc: John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Steve Evans, Sanitarian, Courthouse, Billings

MONTANA STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Helena, Montana

August 23, 1971

Field Investigation

Locality: Laurel

Date: August 12, 1971

Persons Seen: Mr. Steve Duganz, Sanitarian; and the secretary of the City Engineer--the Engineer was not available.

Refuse Disposal Area:

The refuse is not being burned, and it is being compacted and buried every day, although just a little more cover material is needed.

North of the main disposal area, brush, debris, tree trimmings, and other materials, such as this, are being stored. A permit was going to be obtained to burn this clean-burning material, but the air pollution people in Billings wouldn't issue a permit. If this material is going to be burned, the old tires and garbage that have been thrown in this site, presumably by people who use the disposal site after 5:00 p.m., must be removed.

Comments:

Laurel has been running a decent site for some time now, and it is pleasing to see that they are constantly improving their operation.

Recommendations:

1. Cover the refuse more adequately.
2. Try to find a solution to the debris problem.

Respectfully submitted,

Eddy A. Crowley, Environmental Engineer
Solid Waste Program

EAC:ao

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Steve Duganz, Sanitarian, Courthouse, Billings

MONTANA STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Helena, Montana

August 22, 1971

Field Investigation

Locality: Laurel

Date: August 12, 1971

Persons Seen: Mr. Steve Gagnaz, Sanitarian; and the secretary of the City Engineer--the Engineer was not available.

Refuse Disposal Area:

The refuse is not being burned, and it is being compacted and buried every day, although just a little more cover material is needed.

North of the main disposal area, brush, debris, tree trimmings, and other materials, such as this, are being stored. A permit was going to be obtained to burn this clean-burning material, but the air pollution people in Billings wouldn't issue a permit. If this material is going to be burned, the old tires and garbage that have been thrown in this site, presumably by people who use the disposal site after 5:00 p.m., must be removed.

Comments:

Laurel has been running a decent site for some time now, and it is pleasing to see that they are constantly improving their operation.

Recommendations:

1. Cover the refuse more adequately.
2. Try to find a solution to the debris problem.

Respectfully submitted,

Eddy A. Crowley, Environmental Engineer
Solid Waste Program

EAC:ao

Reports to: Hon. Louis M. Yovetich, Mayor, City of Laurel, Laurel
John J. Daley, City Engineer, City of Laurel, Laurel
Mr. Steve Gagnaz, Sanitarian, Courthouse, Billings

Laurel Field Investigation

Page two

June 29, 1971

of the settling basin savings could possibly be made in reduced usage of chemicals required for treatment of the water. Longer retention times in the basin would result in better settlement of settleable particles. It is again recommended that consideration be given to repair of this basin.

Refuse Disposal Area:

The refuse disposal area for Laurel is located about two miles north of the city. Since the last investigation, the site has been modified to a trench type sanitary landfill that is covered daily. This landfill operation is very much improved over the past years and the City is to be commended for their action and cooperation. The salvage operation of past years has been completely closed up and the whole site is much improved.

Respectfully submitted,

Alf J. Milteng
Regional Public Health Engineer

AJM:mg

Reports to: Mr. Kenneth Olson, Mayor, City of Laurel, Laurel
Mr. John Daley, City Engineer, Laurel
E. C. Hall, M.D., City Health Officer, Box 157, Laurel
Regional Public Health Engineer's Office, Box 20296, Billings

MONTANA STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Billings, Montana

June 24, 1971

Field Investigation

Location: Laurel

Date: June 4, 1971

June 25, 1971

Personnel: John Daley, City Engineer, City of Laurel, Montana

Hon. Kenneth E. Olson
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Olson:

On June 4, 1971, Mr. Eddy Crowley of this office observed conditions at the Laurel refuse disposal site. A copy of his report is enclosed.

Your attention is directed to the recommendation in the report. It is commendable that the City of Laurel began operating a sanitary landfill before the Board of Health's July 1, 1971 deadline. Operating procedures at the landfill should be improved. A minimum of six inches of daily cover is necessary.

If there are any questions concerning this report, please feel free to contact this office.

Sincerely yours,

Report to: Hon. Kenneth E. Olson, Mayor, City of Laurel, Laurel
Mr. John Daley, City Engineer, City of Laurel, Laurel

A. C. Hall, M.D., Health Officer
Mr. William Reinhart, Director
Claiborne W. Brinck, P.E., Director
Division of Environmental Sanitation

CWB:EAC:ao

Enclosure

cc: Mr. John Daley, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., Health Officer, P. O. Box 157, Laurel
Mr. William Reinhart, Courthouse, Billings

June 22, 1971

Mr. Joseph E. Olson
Mayor, City of Lowell
Lowell, Maine 0044
Dear Mayor Olson:

On June 4, 1971, Mr. Billy Crowley of this office observed
conditions at the Lowell refuse disposal site. A copy of his
report is enclosed.

Your attention is directed to the recommendation in the report.
It is recommended that the City of Lowell begin operating a weekly
landfill before the Board of Health's July 1, 1975 deadline. Operating
provisions at the landfill should be improved. A minimum of six inches
of daily cover is necessary.

If there are any questions concerning this report, please feel
free to contact this office.

Sincerely yours,

Stephen V. Welch, P.E., Director
Division of Environmental Protection

cc: SAC

cc: SAC

cc: Mr. John Foley, City Engineer, City of Lowell, Lowell
E. O. Hall, Jr., Health Officer, P. O. Box 100, Lowell
Mr. William Roberts, Commissioner, Maine

MONTANA STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Helena, Montana

June 24, 1971

Field Investigation

Locality: Laurel

Date: June 4, 1971

Persons Seen: John Daley, City Engineer; and Bill Reinhart, Sanitarian

Refuse Disposal Area:

The landfill, located about two miles north of Laurel, is shaping up. The scrap and salvageable items have either been hauled away or buried. The refuse is not being burned, and it is compacted and buried, but still not enough cover material is being applied to the refuse.

Recommendations:

Cover the refuse more adequately.

Respectfully submitted,

Eddy A. Crowley, Environmental Engineer
Solid Waste Program

EAC:ao

Report to: Hon. Kenneth E. Olson, Mayor, City of Laurel, Laurel
Mr. John Daley, City Engineer, City of Laurel, Laurel
E. C. Hall, M.D., Health Officer, P. O. Box 157, Laurel
Mr. William Reinhart, Courthouse, Billings

June 10, 1914

My Dear Sir:

Enclosed please find

check for \$100.00

for the sum of one hundred dollars, as per invoice.

Very respectfully,
J. J. [Signature]

The invoice is being forwarded to you for your information. It is to be understood that the invoice is not to be used as a receipt for the goods until the goods are received by you.

Sincerely,
J. J. [Signature]

Very truly yours,
J. J. [Signature]

Very truly yours,
J. J. [Signature]

Very truly yours,
J. J. [Signature]

Very truly yours,
J. J. [Signature]

Very truly yours,
J. J. [Signature]

MONTANA STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Helena, Montana

March 19, 1971

Trip Report

March 16 through March 18

Departure To: White Sulphur Springs, Harlowton, Lewistown, Roundup, Billings
Laurel and Bozeman

3/16/71. Tuesday, March 16, the Mayor of White Sulphur Springs, Jim Dempsey, talked with us about the refuse disposal problems of his area and the proposal for a district. He didn't sound very enthusiastic. Their present dump site is a fenced, open burning dump.

The refuse disposal site at Harlowton is a trench operation. Although it is not covered too often, it could easily become a sanitary landfill with just a little compaction and daily cover. The mayor was not available for comments.

Dick Isern, the sanitarian in Lewistown, introduced us to the proprietor of the disposal area, Mr. Burley, who is operating a fairly decent landfill. He has an acceptable slope and good compaction, but he is operating too large a face, resulting in the use of excessive cover material. Due to weather conditions, mud, and lack of accumulated cover material, he is presently unable to cover daily. He assured us this problem would be corrected. He also requested pictures of the trash barrier the Helena landfill is using.

We went through Roundup after 5:00 p.m., and documented their open burning dump with pictures.

3/17/71. Wednesday morning Bill Reinhart, the Billings sanitarian, and John Daley, Laurel City Engineer, drove with us to the Laurel disposal site. The operation is well in hand to meet the July 1 deadline. The only complaint was the lack of cover depth in one area, which will be corrected, and a local salvage operation, which is in the process of moving.

Wednesday afternoon we attended the Montana Environmental Health Association training conference.

3/18/71. Thursday (from 10:00 a.m. to 3:00 p.m.) we attended a meeting in Bozeman on grizzly bear and solid waste disposal problems around Yellowstone Park. The meeting was held primarily for the purpose of discussion of the

WESTMAN STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Helena, Montana

March 12, 1971

Title Page

March 12 through March 13

Program for: White Sulphur Springs, Montana, Westman, Helena, Billings
Laramie and Butte

White Sulphur Springs, Montana, March 12, the Mayor of White Sulphur Springs, Mr. [Name],
called with us about the refuse disposal problem at his town and the proposal
for a landfill. He didn't sound very enthusiastic. Their present dump site
is a forest, open burning dump.

The refuse disposal site at Westman is a trench operation. Although
it is not covered in other, it could easily become a sanitary landfill with
just a little compaction and daily cover. The mayor was not available for
interview.

Back home, the sanitation in Laramie, introduced us to the proprietor
of the disposal area, Mr. [Name], who is operating a fairly decent landfill.
He has no separate signs and good compaction, but he is operating too large
a land, resulting in the use of excessive cover material. Due to weather
conditions, mud, and lack of compacted cover material, he is presently
unable to cover daily. He wanted us to see this problem would be corrected. We
also requested pictures of the trench barrier the Helena landfill is using.

We went through [Name] after 5:00 p.m., and documented their open
burning dump with pictures.

Wednesday morning Bill [Name], the Billings sanitation and John
[Name], Laramie City Engineer, drove with us to the Laramie disposal site. The
operation is well in hand to meet the city's needs. The only complaint
was the lack of cover depth in one area, which will be corrected, and a
local salvage operation, which is in the process of working.

Wednesday afternoon we attended the Montana Environmental Health
Association evening conference.

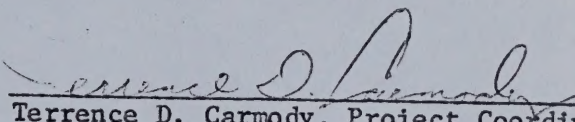
Thursday (from 10:00 a.m. to 5:00 p.m.) we attended a meeting in
Helena on refuse and solid waste disposal problems around Yellowstone
Park. The meeting was held primarily for the purpose of discussion of the

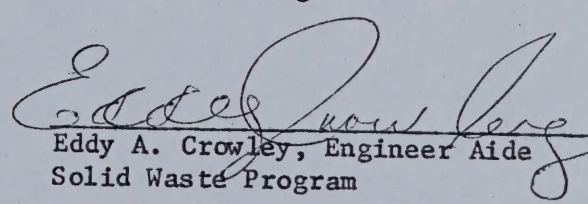
problem so that a solution could be drawn up at a later meeting. It appears that Yellowstone Park, according to Jack Anderson, is going to abruptly cease open dumping and convert to a landfill at the Trout Creek site. This conversion will, unfortunately, occur in parallel with the West Yellowstone conversion to a landfill.

According to John Craighead, noted authority on the grizzly bear, this is not the proper solution. He advised that while the West Yellowstone dump is being converted into a landfill, the open dump at Trout Creek be left open for the present to accommodate a grizzly bear movement out of the West Yellowstone area. He felt there would be more danger for the residents of West Yellowstone if both dumps are closed simultaneously than if the West Yellowstone dump is closed first, allowing the bears to move to the yet open dump at Trout Creek, then eventually close the Trout Creek dump.

The State Department of Health agreed with Dr. Craighead and so voiced their opinion at the meeting.

Respectfully submitted,


Terrence D. Carmody, Project Coordinator
Solid Waste Program

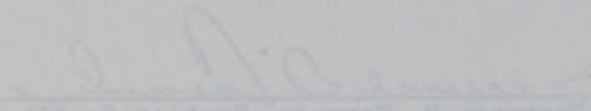

Eddy A. Crowley, Engineer Aide
Solid Waste Program

probable so that a solution could be drawn up at a later meeting. It suggests that Yellowstone Park, according to Jack Anderson, is going to strictly cause open dumping and convert to a landfill at the Trout Creek site. This conversion will, unfortunately, occur in parallel with the West Yellowstone conversion to a landfill.

According to John Crawford, noted authority on the grizzly bear, this is not the proper solution. He advised that while the West Yellowstone dump is being converted into a landfill, the open dump at Trout Creek be left alone for the present to accommodate a grizzly bear movement out of the West Yellowstone area. He felt there would be more danger for the residents of West Yellowstone if both dumps are closed simultaneously than if the West Yellowstone dump is closed first, allowing the bears to move to the yet open dump at Trout Creek, then eventually close the Trout Creek dump.

The State Department of Health agreed with Mr. Crawford and as voiced their opinion at the meeting.

Respectfully submitted,


Lawrence D. Carney, Project Coordinator
Solid Waste Program


Ray A. Carney, Engineer
Solid Waste Program

No work has been done on the existing settling basins. It is hoped that repair or replacement of these basins is accomplished before any serious problems occur. The Laurel water plant is well maintained and operated.

Sewage Treatment Facilities:

The sewage treatment system for the City of Laurel consists of a primary treatment plant, including bar screen, comminutor, primary clarifier, chlorine feeder and contact basin, final effluent lift pump, Parshall flume, two-stage heated digestion and sludge drying beds.

Mr. Nunn stated that the problem experienced with oil on the clarifier at the time of the last investigation is almost totally cleared up. Mr. Nunn located the source as coming from the Northern Pacific Freight yards. Since then, the railroad company has stopped this leak.

The Fish and Game Department in Billings reported to the writer that a source of pollution was occurring in the vicinity of the effluent discharge from the treatment plant at Laurel. This was investigated with Mr. Nunn and the pollution was found to be from an abandoned pipeline from the Farmers Union Oil Company and not from the effluent from the Laurel disposal plant. This had been brought to the attention of the Farmers Union Oil Company the previous week and they were in the process of re-plugging this line to prevent any future pollution. The Laurel disposal plant is very well maintained and operated.

Garbage and Refuse Disposal:

The garbage and refuse disposal facilities for the City of Laurel consists of a modified landfill approximately two miles north of the City. On the date of this inspection, the landfill operation was found to be in fair condition.

When questioned concerning the disposition of the refuse that is scattered on the northern part of the site, Mr. Daley stated that the remaining refuse will be dozed and buried as soon as possible. All salvageable material has been removed from the refuse so what is remaining is of no value. It is hoped that this can be done as soon as possible.

Mr. Daley stated that they are to stock pile in the near future approximately 6,000 yards of dirt to use for covering during the winter months. Excavation of covering material is difficult during the cold months so this should greatly help in keeping the refuse area covered during the winter.

Respectfully submitted,

Alf J. Nulteng, P.E.
Regional Engineer

AJN:sdd

Reports to: Hon. Kenneth E. Olson, Mayor; John Daley, City Engineer;
E. C. Hall, M.D., City Health Officer

November 2, 1963

Page 2

City of Laurel

No work has been done on the existing settling basins. It is hoped that repair or replacement of these basins is accomplished before any serious problems occur. The Laurel water plant is well maintained and operated.

Sewage Treatment Facilities:

The sewage treatment system for the City of Laurel consists of a primary treatment plant, including bar screen, comminutor, primary clarifier, chlorine feeder and contact basin, final effluent lift pump, Parshall flume, two-stage heated digestion and sludge drying beds.

Mr. Nunn stated that the problem experienced with oil on the clarifier at the time of the last investigation is almost totally cleared up. Mr. Nunn located the source as coming from the Northern Pacific Freight yards. Since then, the railroad company has stopped this leak.

The Fish and Game Department in Billings reported to the writer that a source of pollution was occurring in the vicinity of the effluent discharge from the treatment plant at Laurel. This was investigated with Mr. Nunn and the pollution was found to be from an abandoned pipeline from the Farmers Union Oil Company and not from the effluent from the Laurel disposal plant. This had been brought to the attention of the Farmers Union Oil Company the previous week and they were in the process of re-piping this line to prevent any future pollution. The Laurel disposal plant is very well maintained and operated.

Garbage and Refuse Disposal:

The garbage and refuse disposal facilities for the City of Laurel consists of a modified landfill approximately two miles north of the City. On the date of this inspection, the landfill operation was found to be in fair condition.

When questioned concerning the disposition of the refuse that is scattered on the northern part of the site, Mr. Daley stated that the remaining refuse will be hosed and buried as soon as possible. All salvagable material has been removed from the refuse so what is remaining is of no value. It is hoped that this can be done as soon as possible.

Mr. Daley stated that they are to stock pile in the near future approximately 6,000 yards of dirt to use for covering during the winter months. Excavation of covering material is difficult during the cold months so this should greatly help in keeping the refuse area covered during the winter.

Respectfully submitted,

Alfred J. Wilcox, P.E.
Regional Engineer

ALJ:sgd

Report to: Hon. Kenneth E. Olson, Mayor; John Daley, City Engineer;
E. C. Hall, M.D., City Health Officer

Yellowstone 22

May 7, 1969

Honorable Kenneth Olson
Mayor, City of Laurel
Laurel, Montana 59044

Dear Mayor Olson:

Enclosed is a copy of a report prepared by Mr. Don Willems, Public Health Engineer, covering his visit to Laurel on April 9, 1969, at which time he observed conditions at the water treatment plant, the sewage treatment plant and at the refuse disposal area.

Your attention is directed to the comments and recommendations included in the report. We are pleased to note that the water treatment plant and the waste disposal plant were found to be in their usual well maintained condition.

It is noted that garbage is not being properly handled at the disposal site. The face of the dump should be kept as small and narrow as possible to still operate. This makes the covering problem much easier and less expensive. If there cannot be a person at the site at all times, then the people should not have access to the site until there is someone there to guide them. The burning of garbage should be stopped and the garbage covered daily.

If there are any questions or comments concerning this report, please feel free to contact this office.

Yours very truly,

Claiborne W. Brinck, P.E., Director
Division of Environmental Sanitation

CWB:mg
Enclosure

cc: Mr. John Daley, City Engineer, Laurel
Mr. Ken Bevin, Water Superintendent, Laurel
Mr. Dewey Nunn, Sewage Treatment Plant Operator, Laurel
E. C. Hall, M.D., City Health Officer, 101 West Main, Laurel
Regional Engineer's Office, P. O. Box 20296, Billings

May 1, 1945

Enclosed is a copy of a report prepared by Mr. J. Edgar Hoover, Director of the Federal Bureau of Investigation, dated May 1, 1945, in which he states that the following information was obtained from a confidential source who has provided reliable information in the past:

The source has advised that the following information was obtained from a confidential source who has provided reliable information in the past:

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The source has advised that the following information was obtained from a confidential source who has provided reliable information in the past:

May 1, 1969

Sewage Treatment System:

Primary treatment plant including bar screen, comminutor, primary clarifier, chlorine feeder and contact basin, final effluent lift pump, Parshall flume, two-stage heated digestion, and sludge drying beds.

Comments and Recommendations:

1. Mr. Nunn was having trouble with oil on the clarifier. Apparently, this oil was coming from a service station or repair shop, and Mr. Nunn was to check for the source the following day.
2. Periodic cleaning of the weirs on the clarifier will probably provide more uniform flow distribution through the clarifier.
3. The plant is well maintained and operated.

Garbage and Refuse Disposal:

A modified landfill is used about two miles north of Laurel.

Comments and Recommendations:

1. The dumping area at the garbage disposal site is too scattered to maintain properly. It is recommended that the dumping area be confined to a small area which can be frequently covered.
2. The garbage is periodically burned. It is recommended that this practice be stopped.

Respectfully submitted,

D. G. Willems, P.E., Chief
Water Pollution Control Section
Division of Environmental Sanitation

DGW:sdd

cc: Honorable Kenneth Olson, Mayor, Laurel
Mr. John Daley, City Engineer, Laurel
Mr. Ken Bevin, Water Superintendent, Laurel
Mr. Dewey Nunn, Sewage Treatment Plant Operator, Laurel
E. C. Hall, M.D., City Health Officer, 101 West Main, Laurel
Alf Milteng, P.E., Regional Public Health Engineer, Box 20296, Billings

Yellow

February 2, 1968

Kenneth E. Olson
Mayor of Laurel
Laurel, Montana 59044

Dear Mayor Olson:

Enclosed is a copy of a report prepared by Mr. Terrence Carmody covering his inspection of the Laurel garbage dump on January 25, 1968.

Your attention is called to the recommendations included in the report.

If there are any questions or comments concerning this report, please feel free to contact this office.

Yours very truly,

Claiborne W. Brinck, Director
Division of Environmental Sanitation

CWB:iit

Enclosure

cc: William Reinhart, County Sanitarian, Billings
John C. Powers, M.D., County Health Officer, Billings
Frank Borchardt, P.E., P.O. Box 20296, Billings

STATE OF MONTANA
STATE DEPARTMENT OF HEALTH
Division of Environmental Sanitation
Field Investigation

February 1, 1968

LOCALITY: Laurel

DATE: January 25, 1968

PERSON SEEN: John Daily, City Engineer
William Reinhart, County Sanitarian

The solid waste disposal site is located in a draw four miles north of town. Because the head of the draw is not located on city property, a diversion dam was constructed. This site was put into operation in 1965. A dump was started about 50 yards below the diversion dam. It consists of a face about 30 feet high and runs approximately 150 yards. They are burning and do not cover on a daily basis.

A man is hired to maintain the dump. He has an old D-4 "Cat". He gets a small salary plus salvage rights. His salvage operation has created quite an eye sore.

The landfill operation should start at the foot of the diversion dam. It is recommended that the city prohibit salvaging or that they require the person responsible to remove all the material that is salvaged on a daily basis.

Respectfully submitted,

Terrence D. Carmody, R.S., Sanitarian
Division of Environmental Sanitation

TDC:sdd

Reports to: Kenneth E. Olson, Mayor, Laurel
William Reinhart, County Sanitarian, Billings
John C. Powers, M.D., County Health Officer, Billings
Frank Borchardt, P.E., P. O. Box 20296, Billings

STATE OF MONTANA

STATE DEPARTMENT OF HEALTH

Division of Environmental Sanitation

February 1, 1955

Field Investigation

LOCALITY: Laurel

DATE: January 25, 1955

PERSONS: John Bailey, City Engineer
William Salazar, County Sanitarian

The solid waste disposal site is located in a draw just west of town. Because the head of the draw is not located on city property, a diversion has not been constructed. This site was put into operation in 1952. A dump was started about 20 yards below the diversion dam. It consists of a face about 20 feet high and runs approximately 100 yards. They are burning and do not cover on a daily basis.

A man is hired to maintain the dump. He has an old 1/2-ton truck with a small engine plus salvage rights. His salvage operation has created noise in the area. The landfill operation should start at the foot of the diversion dam. It is recommended that the city prohibit salvaging on this dump. They request the person responsible to remove all the material that is salvaged on a daily basis.

Respectfully submitted,

Lawrence B. Conroy, R.E., Sanitarian
Division of Environmental Sanitation

Report to: Kenneth E. Olson, Mayor, Laurel
William Salazar, County Sanitarian, Billings
John C. Powers, R.E., County Health Officer, Billings
Frank Edwards, R.E., P.O. Box 20356, Billings

Laurel
June 21, 1967

4. In general, the overall water treatment and supply facilities are maintained in excellent condition. The water treatment plant staff is commended for their efforts.

Swimming Pool

The Laurel Swimming Pool is an outdoor concrete pool equipped for continuous recirculation and disinfection. At the time of this visit the pool was clear and clean. Pool pH was 7.6 with a chlorine residual of 0.4 ppm. Soda ash is hand-fed into the pool water to maintain the pH at 7.6 to 7.8. We have previously recommended that the old slurry feeder and metal tank located in the filter room be repaired and put into service as a soda ash feeder. It was reported that the filter system is not operated continuously 24-hours per day. In previous years this has resulted in difficulty in maintaining a clear, clean pool and we have recommended that the filters and chlorination system be operated continuously. This recommendation is again repeated.

The dressing room areas are cleaned and disinfected daily and at the time of this visit were found to be in satisfactory condition.

Garbage and Refuse Disposal

Garbage and refuse is disposed of at a site approximately two miles north of the city. When this site was obtained and put into service, immediately prior to our previous inspection in June, 1966, it was planned to have a modified sanitary landfill-type of operation. The area is a series of coulees and gullies and it was planned to dump disposal matter into the gullies, burn the material, and then cover the area. It was expected that this would be a relatively clean operation. When seen this year, however, the area was very messy and very little covering has been accomplished. It was noted that the scavenger who takes care of the site and directs dumping has practically created a dump site of his own consisting of all the material which he has collected. It was recommended that the disposal area, including most of the scavenger area, be cleaned up and covered. A city-owned bull dozer was at the site at the time of this visit. It was suggested that this unit be used regularly, at least weekly, to cover the disposal area. With proper use of the equipment and area available, the city of Laurel should be able to have and maintain a reasonably well operated sanitary landfill.

Respectfully submitted,

F. A. Borchardt, P.E.
Regional Public Health Engineer
Division of Environmental Sanitation

FAB:ift

cc: Kenneth Olson, Mayor, Laurel
John Daley, City Engineer, Laurel
Joe Nicholas, Water Superintendent, Laurel
E. C. Hall, M.D., City Health Officer, Laurel
Regional Engineer's Office, P.O. Box 20296, Billings

It is generally the custom of the Government to make a preliminary investigation in order to determine the feasibility of a proposed project before it is referred to the Board of Engineers.

Feasibility Study

The purpose of a feasibility study is to determine whether a proposed project is technically, economically, and socially feasible. It is a preliminary investigation that is conducted before a project is referred to the Board of Engineers. The study is conducted by a team of experts who are familiar with the project and the relevant technical, economic, and social factors. The study is conducted in a systematic and organized manner, and it is completed within a specified time frame. The results of the study are presented in a report that is submitted to the Board of Engineers for their consideration.

The feasibility study is a critical step in the project development process. It provides the Board of Engineers with the information they need to make a decision about whether to approve the project. The study also provides the project team with valuable insights into the potential challenges and opportunities associated with the project.

Technical Feasibility

Technical feasibility is the first and most important step in the feasibility study process. It involves a detailed examination of the technical aspects of the project, including the proposed design, the available resources, and the potential risks. The technical feasibility study is conducted by a team of experts who are familiar with the project and the relevant technical factors. The study is conducted in a systematic and organized manner, and it is completed within a specified time frame. The results of the study are presented in a report that is submitted to the Board of Engineers for their consideration.

Respectfully submitted,

J. A. [Name]
Regional Office [Address]
Division of [Department]

Enclosure
[Name]
[Address]
[City]
[State]
[Zip]

MONTANA STATE BOARD OF HEALTH
Division of Environmental Sanitation

SOLID WASTE DISPOSAL INSPECTION

LOCATION Laurel Yellowstone Pop. served 5000+ Date June 8 1966
City County
OWNER/CARETAKER City - Frank B. (?) License No. _____
MUNICIPAL OR PRIVATE? City - County Inspected by Borchardt

I. LOCATION:

2 miles
Approximate distance to nearest dwelling
2 miles
Approximate distance from nearest collection point
1/4 mile
Approximate distance from highway
Long ways - several miles
Approximate distance from stream, lake, pond, reservoir, etc.
(circle appropriate word or words)

Site Approved ()

Date of Approval _____ 19____

II. METHOD OF DISPOSAL (Circle appropriate type)

1. Sanitary Landfill (More or Less) 3. Incineration

- (X) a. Back-filled, compacted
daily____, weekly X,
other____ Specify____
(X) b. Area fenced
(X) c. Dumping controlled
() d. Final soil cover adequate
(X) e. Insects and rodents controlled
(X) f. Salvaging not a nuisance
(X) g. Premises clean and maintained
(X) h. Adequate fencing to prevent
blowing papers

- () a. Operating in satisfactory manner
() b. Odors or operation not a nuisance
() c. Incineration complete
() d. Non-combustibles properly
disposed of
() e. Insects and rodents controlled
() f. Area fenced
() g. Salvaging not a nuisance
() h. Premises clean and maintained
() i. Combustion confined to prevent
blowing of hot material

2. Composting

- () a. Insects and rodents controlled
() b. Odors or operation not a
nuisance
() c. Area fenced
() d. Premises clean and maintained

4. Other (Describe)

New site - started this
week. Will be watched
by full time scavenger.
Plan to consolidate and
burn daily & cover as
needed but at least
weekly.
Cars & trees will be
separate.

III. ACCESS ROADS

1.
(X) a. Adequate for trucks
(X) b. Spillage minimized
(X) c. No dumping along road

IV. SIGNING

1.
(X) a. Signing adequate
() b. Warnings posted when disposal area is poisoned

RESERVED
JUL 14 1966

JUL 14 1966
Div. Env. Sanitation
STATE BOARD OF HEALTH

Yell

July 26, 1966

Honorable John Beslanwitch
Mayor, City of Laurel
Laurel, Montana

Dear Mayor Beslanwitch:

The water treatment, sewage treatment and refuse disposal facilities in Laurel were seen by Mr. F. A. Borchardt of this office on June 8, 1966. His report covering this visit is enclosed with this letter.

We are pleased to observe the general high level of operation at Laurel. You have had problems and you are solving them.

We strongly recommend against burning garbage and other refuse. It is recognized that tree limbs and other brushy material can be difficult to compact in a landfill operation. If it is necessary to burn, this should be done away from the dump site, since if burning is done at the landfill, there is a severe air pollution problem. Usually the combustion is not sufficient enough so as to burn all of the organic material which in turn creates problems with fly breeding and does offer a good habitat for rats, if they move into the area. We would prefer to see all garbage compacted and covered the day it is collected, if this is at all practical. In no instance should this be done less than once a week.

It is good to know that a suitable site for your dump has finally been located. We know that this has been a difficult problem to solve.

If you have any questions or comments regarding this report, please feel free to contact this office.

Yours very truly,

Claiborne W. Brinck, Director
Division of Environmental Sanitation

CWB:mg
Enc.

cc: Mr. John Daley, City Engineer, Laurel
Mr. Joe Nicholas, Water Superintendent, Laurel
Mr. Deway Nunn, Sewage Superintendent, Laurel
E. C. Hall, M.D., City Health Officer, Laurel
Regional Engineer's Office, Box 20296, Billings

2. Mr. Nunn reported that he is able to maintain a chlorine residual in his final effluent, although the residual varies widely from 0.1 ppm during peak flows to 1.5 ppm during low flows. At the time of this visit, he was adding 35 pounds per twenty-four hours at a flow rate of 0.76 MGD and a trace of chlorine residual was obtained in the effluent. The chlorine feed rate was increased to 50 pounds per twenty-four hours.
3. Mr. Nunn reported that he had recently checked the detention time in the chlorine contact basin by use of dyes. When first checked, the detention time was 2-1/2 minutes. The baffles in the tank were then changed and he is now able to get 5-1/2 minutes detention. This is still considerably short of the fifteen minutes detention which is recommended and it was suggested to Mr. Nunn that additional baffles be constructed in the tank to minimize short-circuiting.
4. Mr. Nunn appears to be doing a fine job of operating the facilities.

Garbage and Refuse Disposal: Mr. Daley and the undersigned visited a new garbage and refuse disposal site which was placed into operation only a few days previous. The new site is located approximately two miles north of the city in a well isolated area and replaces the old dump site located south of the city and adjacent to the river. The old site was very unsatisfactory. The new site was retained jointly by the City of Laurel and Yellowstone County. County equipment will be used to operate a sanitary landfill type of operation. The area is fenced and dumping will be controlled by a full-time scavenger who will reside at the site. Mr. Daley reported that the planned operation will be to consolidate the dumped material daily for burning and then cover the materials as often as needed, but at least weekly. Cars and shrubbery will be stockpiled in separate areas. The location of the new disposal site should minimize any problems connected with the burning operation.

Respectfully submitted,

F. A. Borchardt, P.E.
Regional Public Health Engineer
Division of Environmental Sanitation

FAB:mg

cc: Mr. John Beslanwitch, Mayor, Laurel
Mr. John Daley, City Engineer, Laurel
Mr. Joe Nicholas, Water Superintendent, Laurel
Mr. Dewey Nunn, Sewage Superintendent, Laurel
E. C. Hall, M.D., City Health Officer, Laurel
Helena Office, State Board of Health, Helena

1. The first paragraph of the report states that the purpose of the study was to determine the effect of the treatment on the growth of the plants. The results of the study are presented in the following table.

2. The second paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

3. The third paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

4. The fourth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

5. The fifth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

6. The sixth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

7. The seventh paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

8. The eighth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

9. The ninth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

10. The tenth paragraph of the report states that the treatment was applied to the plants at the rate of 100 mg per plant. The results of the study are presented in the following table.

Good news, bad news for city landfill troubles

July 20

By Steve Barlow

Part of Laurel's landfill problems appears to be near a resolution. That's the good news for the city. But the trouble with contaminated ground water at the former dump north of town persists. That's the bad news.

The most recent tests of five monitoring wells still show a nitrate concentration in one well that is more than five times the state's allowable level, said Pat Potts, an environmental specialist for the

state.

In the April 22 tests, the nitrate level was more than 50 parts per million in the one problem well, said Potts. The Montana Department of Health and Environmental Sciences' maximum content level is 10 ppm.

"This is the highest level in the state that I've seen around any landfill," Potts said.

The contamination is not a threat

Continued on Page 14

UPCOMING EVENTS

July 23 — Billings Senior High Class of "59" Reunion, Central Park, Billings, 11:00 a.m. Bring your own picnic lunch. Come join your Classmates. For more information call Bill Dove 628-2244.

July 29 - 30 — Laurel Crazy Days!!! Downtown Laurel

July 30 — Poker Rod Run

August 26 — "Awesome August Adventure" - crafters, entertainment, children activities, food. Firemen's Park. 628-7582 or 628-7009 for more information.

Thursday, July 21

Alcoholics Anonymous—Laurel Home Group,

8 pm., Open Meeting, 201 1/2 East Main

AA, Laurel New Freedom Group, Noon

11 1/2 1st Ave., behind the Movie Haus

Moose Mini Herd, 7 pm., Moose Lodge

Jaycees, 8 pm., Riverside Hall

Zidonian Chapter No. 50, Order of Eastern Star, 8 pm., Masonic Temple

Men's League, 6:30 pm., First Congregational Church

Street & Alley Committee, 5:00 pm., City Hall

Awana Clubs of Calvary Baptist Church, 6:30 pm.-8:30 pm.,

Calvary Baptist Church

Friday, July 22

Alcoholics Anonymous—Laurel Home Group,

8 pm., Closed Meeting, 201 1/2 East Main

AA, Laurel New Freedom Group, noon & 8 pm.,

11 1/2 1st Ave., behind the Movie Haus

Landfill

From Page 1

to any source of drinking water right now, said Potts, but she is concerned about it spreading in the future.

The city has 150 days to determine the cause of the contamination and how to correct it, Potts said last week. Laurel will have to drill at least two more wells to determine the extent of the contamination.

At the end of 150 days, the city must then hold a public hearing to discuss the cleanup options with landowners in the area.

Laurel Mayor Chuck Rodgers declined comment, saying he had not discussed the problem with state officials recently.

Meanwhile, the city's predicament with contaminated soil at the landfill site could be resolved by the end of the year. A letter outlining the final corrective steps was mailed

to Laurel's public works department last week, said Ed Thamke, an environmental specialist with the state's Solid and Hazardous Waste Bureau.

This dilemma arose in February when it was learned that the contents of the city's jet rodder, which is used to clean sewer lines and storm drains, had been illegally dumped at the landfill.

The city dug up the contaminated soil and set it on drying beds lined by a special plastic that limits the run-off or infiltration of water.

Tests taken in June didn't reveal anything hazardous, although there were minor amounts of hydrocarbons and nitrates, said Thamke.

Based on his evaluation, Thamke gave the city two options for this fall: land-farm the soil on the site or haul it to the Billings landfill.

Land-farming would involve spreading the soil six to 12 inches deep over an area. It is the cheaper alternative, said Thamke.

"The city has been cooperative, so hopefully we can put this to bed before the end of the year," he remarked.

1119 13th Avenue West
Saturday/Sunday, 9-5
7-20-1tp

LOST

Two bike helmets were taken from the tires on Graff playground Saturday afternoon (7/16). One was a black and green USA TREK, the other was a white and black AIRA SONIC. Please return to 1602 East 8th Street.

7-20-1tp

FOUND

Two rings, north side of Yellowstone River by Riverside Park. 628-6812.

7-20-1tp

Found female dog in Laurel on Sunday. Call to identify. 628-6584.

7-20-1tp

FREE

Crazy Days! July 29, 30. Get your crafts together now for two big days of selling! Contact the Laurel Chamber of Commerce at 628-8105 for information! If no answer, leave message.

7-6-4ta

Free kittens. 628-2286.

7-20-1tp

Two year old male Lab and one year old

at 628-8105 for information! If no answer, leave message.

7-6-4ta

WHY NOT HOST AN EXCHANGE STUDENT? Students from Europe, Former Soviet Union, Japan, Mexico, Brazil, arriving August. You can make a difference!! AYUSA INTERNATIONAL 1-800-477-2631. #782

SWEDISH GIRL Interested in sports, computers. Other Scandinavian, European, South American, Asian High School Exchange Students arriving August. Become a Host Family/AISE. CALL RHEA (406)277-4145 or 1-800-SIBLING. #783

AUCTIONS

Auction

Sunday, July 24, 10 am.

214 East Main Street
Laurel, MT, 59044
(Indoors)

Household & Misc.

Large gun cabinet, chests of drawers, vanity, new and used light fixtures, sofas and love seats, beds, ping-pong table, tables and chairs, desks, weight lifting equipment, end tables, bar and bar stools, lamps, pictures, fans, books, dishes, small electrical appliances, bedding, Avon bottles, Singer sewing machine, • pickup topper (for short box Dakota or Chevy), K. D. canopy, Baby Bathtub, baby table,

INVENTORY AND EVALUATION

SOIL AND WATER RESOURCES

SOIL INTERPRETATIONS

FOR TRENCH-TYPE SANITARY LANDFILL

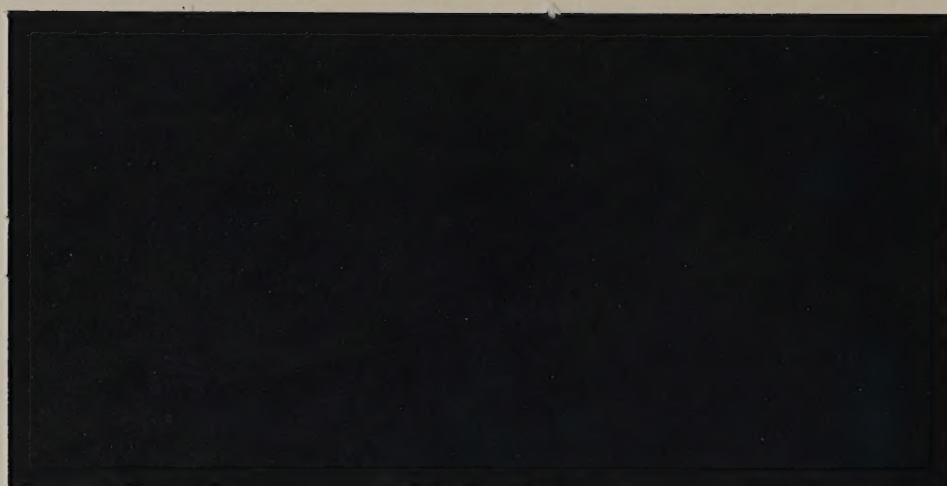
FOR: JOHN DAILEY, CITY ENGINEER

BY: JERRY JACOBY, DISTRICT CONSERVATIONIST

YELLOWSTONE COUNTY SCD



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE



SOIL INTERPRETATIONS

FOR TRENCH-TYPE SANITARY LANDFILL

FOR: JOHN DAILEY, CITY ENGINEER

BY: JERRY JACOBY, DISTRICT CONSERVATIONIST

YELLOWSTONE COUNTY SCD

INTRODUCTION

1629 Avenue D, Building B, Suite 3, Billings, Montana 59102

August 1, 1973

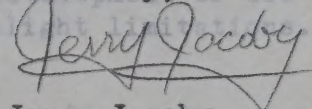
John Dailey, City Engineer
Laurel, Montana

Dear Mr. Dailey,

This report includes soil limitations for trench-type sanitary landfills. Although only the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 33 is being considered at this time, the additional area maybe needed for future expansion. These limitations are rated and expressed as slight, moderate, or severe. Also included are examples of minimum cross-sections and nonerosive grades for two diversions if the decision is made to divert runoff water from the trench areas.

Assistance is available through the Yellowstone Conservation District for a land use plan. The plan may include diversion design, reseeding of trenched areas and future land use after the filling operations are completed. This assistance may be obtained by calling the U. S. Soil Conservation Service, Billings, Montana.

Sincerely,



Jerry Jacoby
District Conservationist

1629 Avenue D, Building B, Suite 3, Billings, Montana 59102

August 1, 1973

John Bailey, City Engineer
Laurel, Montana

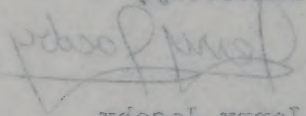
Dear Mr. Bailey,

This report includes soil limitations for trench-type sanitary landfills. Although only the NW 1/4 of section 33 is being considered at this time, the additional area may be needed for future expansion.

Also included are examples of minimum cross-sections and nonerosive grades for two diversions if the decision is made to divert runoff water from the trench areas.

Assistance is available through the Yellowstone Conservation District for a land use plan. The plan may include diversion design, reseedling of trenched areas and future land use after the filling operations are completed. This assistance may be obtained by calling the U. S. Soil Conservation Service, Billings, Montana.

Sincerely,



Jerry Jacoby
District Conservationist

INTRODUCTION

This report is based on a standard soil survey. The soil mapping units are not always uniform but may include variations or inclusions as described in the official soil descriptions, which are on file at the Soil Conservation Service office.

The information in this report does not eliminate the need for on-site investigation for a specific development or land use. It can be used as a guide for planning more detailed on-site investigations.

Soils have limitations in their capacity for development for various uses, depending on their inherent characteristics such as depth, texture, slope, stoniness, permeability and others. These limitations are rated and expressed as slight, moderate, or severe. These are defined as follows:

1. Slight

These soils have few, if any, limitations for the use considered.

2. Moderate

These soils have one or more properties that limit their use. The limitation may be overcome by special measures or treatment. This will increase the cost of the development or use over the normal cost expected on soils with slight limitations.

3. Severe

These soils have one or more properties that seriously limit their use. It may be possible to correct these limitations, however, the cost will be high.



SOIL LIMITATIONS

TRENCH-TYPE SANITARY LANDFILLS

Section 33; T 1 S; R 24 E

SOIL LIMITATIONS

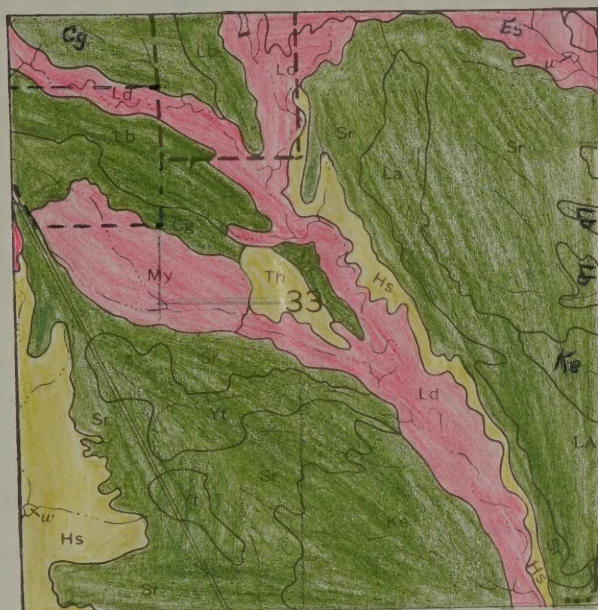
SLIGHT



MODERATE

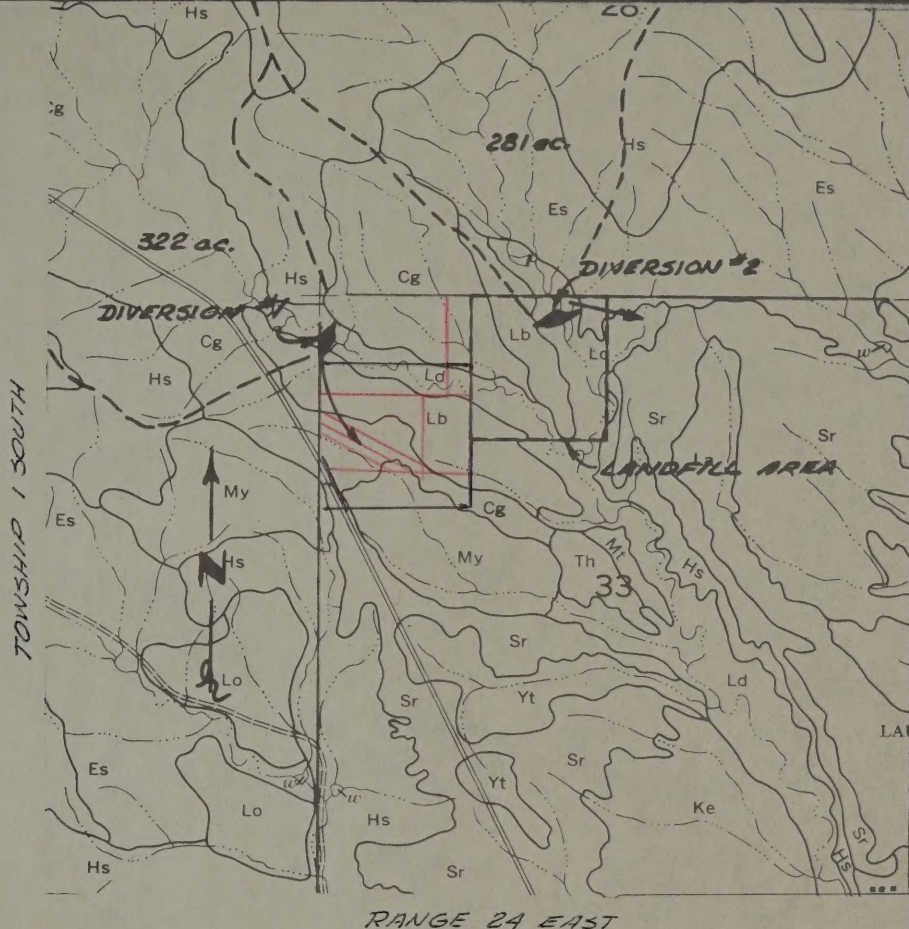


SEVERE



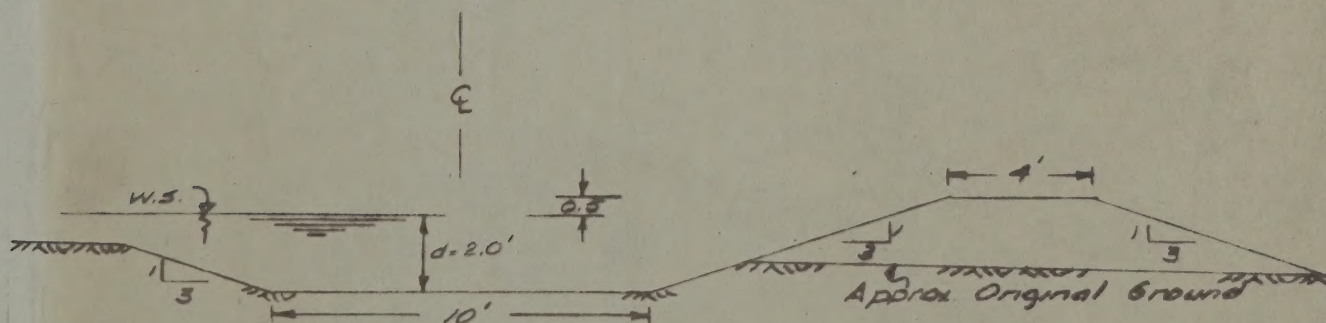
Symbol	Name	Slope	Limitations
Cg	Clapper gravelly loam	7-15%	Slight
Es	Elso-Lohmiller Complex	15-35%	Severe: Shallow to shale and more than 25% slopes
Hs	Hilly gravelly land	15-35%	Moderate: Slopes more than 15%
Ke	Keiser silty clay loam	1-4%	Slight
La	Lambert silt loam	1-4%	Slight
Lb	Lambert silt loam	4-7%	Slight
Ld	Lambert silt loam	7-35%	Severe: Shallow and more than 25% slopes
Mt	McRae-Hysham loams	0-1%	Slight
My	Midway-Shale outcrop complex	variable	Severe: Shallow to shale
Sr	Shorey gravelly loam	4-7%	Slight
Th	Toluca clay loam	1-4%	Moderate: Permeability more than 2.0in/hr
Yt	Yegen and Toluca soils	7-15%	Slight

Note: Soil limitation ratings are based on soil depth (5-6 feet) commonly investigated in making soil surveys.



NOTES:

- (1) Designed for estimated peak flow for a 100 yr. 6 hr. storm.
- (2) Estimated $Q =$ Diversion #1 = 42 cfs
Diversion #2 = 43 cfs
- (3) Slope of channel = 5' 0.002 ft./ft.



TYPICAL CHANNEL CROSS SECTION

PRELIMINARY DESIGN ONLY!

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
DESIGNED BY <i>A.D. & J.J.</i>	APPROVED BY
CHECKED BY	DRAWING NO.
DATE:	SHEET OF

Proposed City Land Fill (SW¹/₄ Sec. 33, T. 1 S., R. 24 E.)
 Laurel, Montana (West of Oiled County Road)

Table I Soil Features Affecting Land Use

Field Symbol	Soil Name	Slope Range	Approx. Percent of Area	Depth to Rock
Hs	Hilly Gravelly Land	15-35%	48%	Over 10 Ft.
My	Midway Shale Outcrop	5-25%	2%	10"-20"
Sr	Shorey Gravelly Loam	4-7%	46%	Below 8 Ft.
Yt	Yegen and Toluca soils	7-15%	4%	Below 8 Ft.

Decisions in Yellowstone County, Montana

Depth to Water Table	Flooding Hazard	Permeability	pH	Sewage Disposal Fields	Sewage Lagoons
None	None	Rapid	7.8	{ Severe due to Mod. Steep Slopes { Severe; shale at 10"-20"	{ Severe due to Slope & Perm. { Moderate on gentle slopes
None	None	Slow	8.2	{ Slight on 1-4% slope { Mod. on 4-7% slope	{ Moderate due to slope
None	None	Moderately-Rapid	8.2	{ Severe: Mod.-Slow Permeability	{ Severe due to slopes.
None	None	Moderate	7.8		

Note: The Midway shale outcrop (My) and Yegen and Toluca (Yt) soils constitute such a small part of the total as to be insignificant.

Slopes of 15-35% for the Hilly Gravelly Land (Hs) place moderate to severe limitations on it for Sewage Disposal Fields and Sewage Lagoons. The rapid permeability of the Hs soils places another limitation on it for Sewage Lagoons. Its rapid permeability places little or no limitation for Sewage Disposal Field use.

The Shorey Gravelly Loam (Sr) soil has fewer limitations for either of the above named uses.

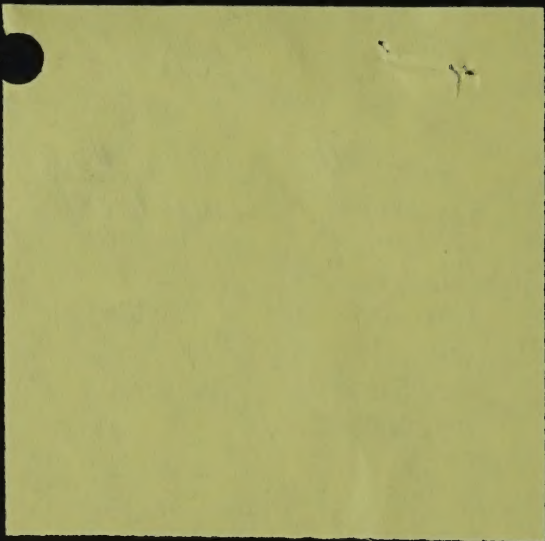
Note: Land Fills and Industrial Waste Disposal Sites require somewhat different soil features.

Industrial wastes usually contain quantities of non-Bio-degradable matter (petroleum products, Caustic material, pesticides etc.) that require confinement. Impermeable or only slightly permeable soils lend themselves to this use.

Bio--degradable wastes that constitute the bulk of Land Fill material can be disposed of on permeable soils.

CLOSED

County Yellowstone #203
Facility & # Old Laurel Landfill
Closure Landfarm
Finan Assur Liner
GW Corr Meas Methane
GW Monitoring O & M
GW Reports Run-on
Inspections
Other: _____



Hendrickson, Mary

From: Jerry Reinisch [jerry.reinisch@kljeng.com]
Sent: Tuesday, December 22, 2009 10:09 AM
To: Hendrickson, Mary
Subject: Laurel Airport

Mary,
I am trying to obtain some historical data for landfills located near the Laurel Airport. One was apparently located in the NW1/4 of Section 33, T1S, R24E and was used by the City of Laurel. The other was located in the SE1/4 of the SE1/4 of Section 33, T1S, R24E and was used for a short time by the airport during construction and then for a short time by the City of Laurel then it was covered like the other location mentioned. Do you have any historical data for these locations or others that may have been used within one-half mile of the airport?

Thank you,

Jerry D. Reinisch
Environmental Planner
Kadmas, Lee & Jackson
128 Soo Line Drive, PO Box 1157
Bismarck, North Dakota 58502-1157
701-355-8705
701-425-1918

*Revised
1-1977 10 acres
NW 1/4 of NW 1/4*

*date of ops
@ end of runway
SE 1/4 of section
fuel tank
construction debris from
airport construction
then used by city
new corner of the section*

- food waste composting -

586 9773

Ron McOwen

Mich Fucci - Billmeyer & Halperin - Kalispell

406-257-8108



Montana Department of
ENVIRONMENTAL QUALITY

PERMITTING AND COMPLIANCE DIVISION

DATE: DECEMBER 24, 2009

NUMBER OF PAGES (including this cover page): (3)

TO: JERRY REINISCH

FAX NUMBER: 701-355-8781 TELEPHONE NUMBER: _____

FROM: MARY LOUISE HENDRICKSON

TELEPHONE NUMBER: 406-444-1808 FAX NUMBER: 406/444-1374

COMMENTS: map of old Laurel landfill site -
Erch -

If you do not receive all the pages of this fax transmission, please call the sender at the telephone number listed above.

Thank you!

Minnesota Department of
ENVIRONMENTAL QUALITY

PERMITTING AND COMPLIANCE DIVISION

DATE February 24, 1987

NUMBER OF PAGES (including this cover page) 2

TO Speed Printing

FAX NUMBER 715-225-2721 TELEPHONE NUMBER _____

FROM Environmental Compliance

TELEPHONE NUMBER 612-296-2000 FAX NUMBER 612-296-2001

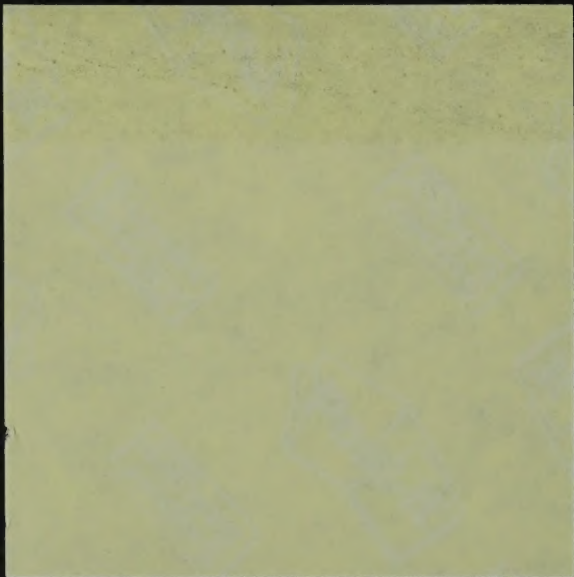
COMMENTS Part of the permit application

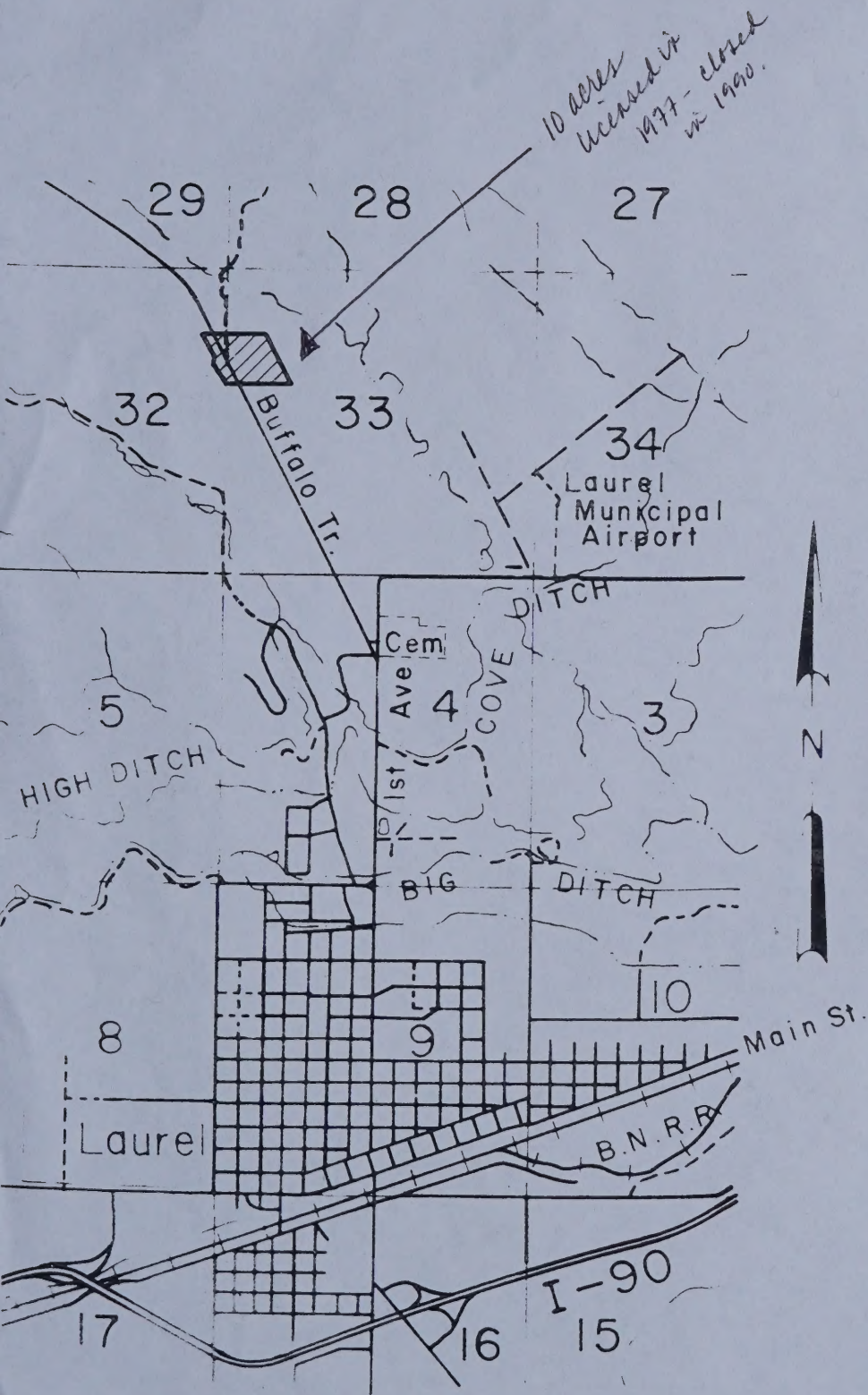
Part -

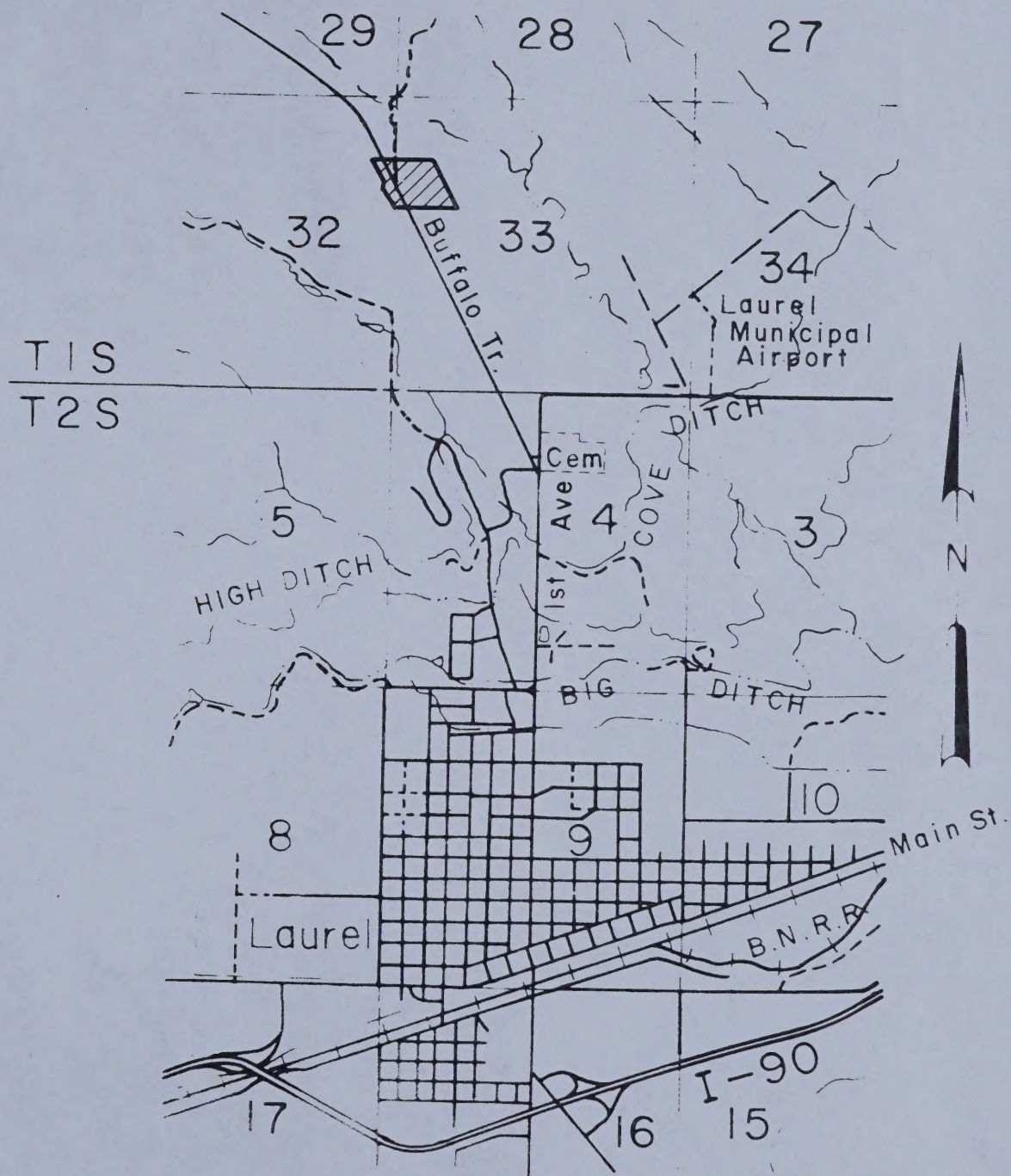
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Thank you!

701 - 355 - 8781







4/10/95

RECEIVED

APR 11 1995

Montana Department of Health
and Environmental Sciences
Waste Management Division

Hey Pat:

Thanks for the information - but I
need a little more. I need to
know who has administrative authority
over the landfill section in question.
Dept. of State Lands? Laurel? Both?

Thanks Again,

Monte Smith
923 2nd Ave.
Laurel, MT
59044

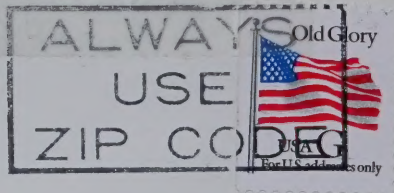
RE:
Landfill license # 291, Laurel

RECEIVED

APR 1 1963

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C.

Monte Smith
923 2nd Ave
Laurel, MT
59094



Pat Crowley
DHES Waste Management
2209 Phoenix Ave.
P.O. Box 200901
Helena, MT 59620-0901



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Graham cautioned the council not to use its power to set restrictions on Community Hope's planned construction as a method of prohibiting its construction at the Cedar Ave. site.

Following more discussion regarding requirements that the council would like to see placed on the construction of this building, City Planner Cal Cumin suggested that the mayor appoint a committee to work out the standards the council would require for Community Hope to build at this site.

The council approved this suggestion by consensus. Mayor Chuck Rodgers appointed Ron Marshall, Albert Ehrlick and Bob Graham as members of the council. Serving for the proponents will be Jim Flisrand, Steve Cosner and Mary Elsenpeter. Representing the opposing side on the committee will be Judy Milliron, Darlene Thormahlen, and Mike Mathis. Cumin will serve at large.

The committee's first meeting is set for Feb. 14 in the Laurel City Council Chambers at 7 pm.

Cenex fire crew douses tank fire Monday morning

The Cenex Fire Team was called out to fight a tank fire early Monday morning, Feb. 7, according to Refinery Manager Ron Pletcher.

Pletcher said workers discovered a fire in a pitch tank—pitch is an asphalt-like material—about 7:30 am. Monday.

It took refinery fire fighters about an hour to put out the fire, which was fueled by the tank contents, Pletcher said. He explained that the fire was contained inside the tank, which made it difficult for firemen to fight. He said fire fighters were finally able to get dry chemicals on the blaze after the fire caused a breach in the roof of the tank near the rim.

Pletcher said failure of the tank's natural gas heating unit is suspected of causing the fire.

Damage to the tank was estimated at less than \$10,000. Damage was contained to the roof and insulation of the tank.

The refinery manager said that the tank is a duplicate and although it will take some time to empty, clean, and get it back on line, loss of the tank will not interfere with operations at the refinery.



Proud bird

An immature golden eagle soared gracefully by year. Golden eagles are not an uncommon sight occasionally seen here as well. The immature bird has a white patch on its head and deep set eye sockets, golden neck ruff, and tail. These white patches disappear as the bird re-

City's land

By Jennifer Draper

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A source, who requested to remain anonymous, told the Outlook that the jet rodger was dumped on the ground north of the current container site in the past year on the orders of Assistant Public Works Director Dave Michael. Michael denies this allegation.

The Outlook contacted another individual who has worked for the City of Laurel for five years. He stated that this incident was not isolated and that dumping the jet rodger at the landfill has been common practice by the city since at least 1989.

He said that in the past five years the contents of the jet rodger have been dumped at the landfill and covered with dirt.

Asked why the state had not been contacted by a city worker before, the source stated, "It never entered my mind to go to the state. When you're a working person, you don't do that stuff. You more or less mind your own business as much as you can." The source said attempts to go to city officials resulted in being assigned "punishment"-type jobs.

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Laurel Outlook

Laurel's Weekly Source for News

Volume 85, Number 33

Wednesday, February 9, 1994

Price 50¢



Committee to consider Hope move

By Jennifer Draper

In a democratic society, when two opposed sides cannot reach an agreement, they have the freedom and responsibility to sit down and discuss the situation in an effort to reach a mutually agreeable solution.

Just such an opportunity has been created by Community Hope's plans to relocate to Cedar Ave. Neighborhood residents are opposed to having the charity build in their area. Meanwhile, the board of Community Hope has been given land at the end of Cedar Ave. to build. The charity needs to expand and has the right under city zoning codes to locate in that area.

The latest in a series of public hearings on Community Hope's planned relocation, held at the Feb. 1 Laurel City Council meeting, resulted in the formation of a committee to study the situation and make suggestions to the Laurel City Council on how the charity can locate on Cedar Ave. and make the neighborhood residents secure with this decision.

Throughout the several public hearings on the issue, residents have opposed the charity's decision to move to Cedar Ave. primarily because they are concerned with increased transient traffic in their neighborhood.

Community Hope supplies food, clothing and other assistance to those in need in the community, including seasonal transient traffic.

Those opposed to the relocation have also raised the question of how the building will look, and where clothing, household items and other donations will be left when the charity is closed.

The board at Community Hope has proposed to build a 3,200 sq. ft. residential style building. It will have a circular driveway, parking in the rear, and be surrounded by a cedar fence.

According to Charles Fisher, vice-president of Community Hope, the board had been trying to develop a plan that the Planning Board would recommend to the council for approval. Fisher said the board has addressed parking and a driveway that will keep the traffic flowing from their property on Cedar Av. to either South 1st St. or South 1st Street. The new location would also have a garage, and may include some small storage sheds near the back fence.

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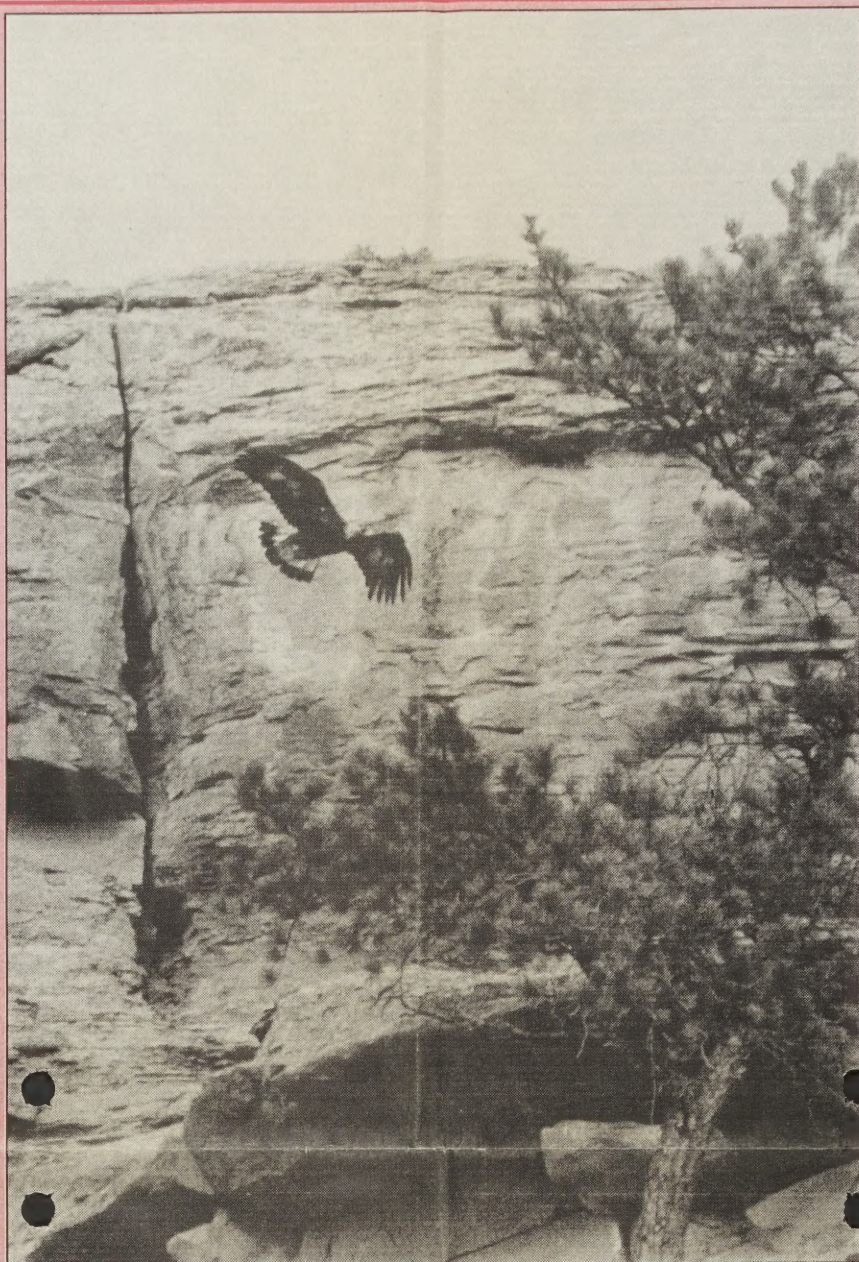
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Outlook photo by Jennifer Draper

City's landfill woes continue

By Jennifer Draper

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Former Public Works Director Peggy Schram, who worked for the city from August 1993 to January 1994, said that she informed Michael late last year that she was looking into possible illegal dumping of the jet rodger at the landfill.

Michael said he did not recall whether or not Schram told him about her investigation into dumping the jet rodger at the landfill. "She may have, but I don't remember it," he said.

When contacted by the Outlook Feb. 7, Rodgers said he had been unaware of Schram's claim that she told Michael of investigating possible illegal dumping at the landfill.

Rodgers said although the city has been able to determine that the dumping took place, just who authorized it is still a question. A third source told the Outlook that the dumping had been authorized by former Public Works Director Jim Worthington and Assistant Public Works Director Dave Michael. Rodgers said that both men have denied authorizing the dumping.

The mayor said the city has had a jet rodger for approximately the past 10 years, but has never had a drying bed for the contents. Rodgers has been mayor of Laurel since December 1991. He said he was made aware that the city needed a drying bed for the jet rodger contents when preparing the last (1993) budget. Asked if he questioned what was happening to the contents of the jet rodger once he knew that it could not be dumped at the landfill, Rodgers said no. He explained that he assumed that the contents of the jet rodger were being hauled to the Billings landfill.

The tank on the jet rodger is filled up gradually. It uses a high pressure water jet to blast out plugged lines, or the vacuum portion of the machine is used to suck out items from blocked lines and storm drains. This sludge is what gradually fills the tank over a period of weeks or months.

Asked how often the jet rodger is used, Michael said "when it is needed."

Rodgers said the amount of jet rodger contents that have been dumped at the landfill is small and does not present a health risk.

Thamke told the Outlook late Friday afternoon, Feb. 4 that the mayor and assistant public works director "levelled" with him and told him the jet rodger had been discharged at the landfill. "They said it was done there because they (the city) had no other alternative," stated Thamke.

Another city official out of work

By Jennifer Draper

For the second time in a month, an appointed Laurel city official is out of a job.

Laurel Mayor Chuck Rodgers fired Peggy Schram, Laurel's Public Works Director, on Jan. 28, one month after deciding not to renew Joe Bradley's contract as City Attorney. Bradley had served as Laurel's City Attorney since 1981.

Schram was hired by the City of Laurel in August 1993. Rodgers said that "at the conclusion of her probationary period, we decided not to continue with her services."

Schram declined to comment on her discharge, except to say, "I am considering consulting legal counsel."

Rodgers did not mention the discharge at the February 1 council meeting. When asked why he had not said anything at the meeting, Rodgers said he had already informed the aldermen individually that Schram had been discharged. "It was just one of those personnel matters," he stated.

According to Rodgers, the city does not have anyone in mind to fill the Director of Public Works position. He said that the city currently needs to fill a mechanic's position at the city shop and the Chief Operator's position at the water plant. "We have to address these first," he explained.

Rodgers said the city will decide in a "couple of weeks" if it will advertise to fill the Director of Public Works position.

Tickets on sale

Laurel fans can watch several of their favorite teams in postseason competition during the upcoming weeks.

About 700 wrestlers from around Montana will invade MetraPark in Billings this weekend for the state meets in classes AA, A and B-C. The Locomotives will send 11 competitors, including two-time defending state champion Josh Perrigo.

The tournament begins Friday morning and runs through Saturday night's championship matches. Tickets, priced at \$15 for adults and \$12 for students, are available at Metra.

The Eastern A Divisional boys basketball tournament will be in Sidney Feb. 17-19. Tickets, also priced at \$15 for adults and \$12 for students, go on sale Thursday morning, Feb. 10, at the high school.

The Class A state tournament will be in Bozeman Feb. 24-26, the same weekend that the District 6-C tournament is held in Laurel.

As a result of Thamke's investigation, the city will be required to excavate the contaminated soil from the locations in the landfill where the jet rodger was discharged. Thamke said this soil will be stockpiled and analyzed before it can be disposed of. He said he is not anticipating any hazardous waste from the site, and the soil, once tested and approved, will probably be disposed of in the Billings landfill.

Thamke said he will require a compliance plan from the city by the middle of February and removal of the contaminated soil as soon as the ground thaws.

He said the city will not be assessed any fines at this point, but that could change if the city does not keep within the compliance schedule. Thamke did not estimate the cost of the clean-up to the city, but said the soil will have to go through extensive testing.

The city has had numerous problems with the final closure of the landfill, including one monitoring well registering a significant contamination level of nitrates in the groundwater.

According to a letter from the DHES, the well has registered five times the allowable level of nitrates in the groundwater since May 1993. (See related story in this issue). Thamke said that it was "possible" that the city's discharging the jet rodger contents at the landfill may be contaminating the groundwater, but this won't be known until the soil can be excavated and tested.

The Laurel City Council voted in 1990 to close its Class II landfill and sign a contract with the City of Billings for solid waste disposal because of new, more stringent federal regulations which made it too expensive for the city to operate its landfill.

The city opened a container site near the old landfill in September 1990 and began hauling raw garbage collected throughout the city to Billings for disposal. Laurel residents could use the container site for disposal of yard clean-up refuse, washers, dryers and items normally taken to the old landfill.

Thamke told the Outlook that it has never been legal, and has not been legal in the past three years, to dump the contents of a jet rodger in a Class II landfill unless the landfill has a drying bed for the sludge or a specially prepared and lined pit for disposal. Thamke said there is no landfill in the state that currently has a drying bed. He said that nothing with a moisture content greater than 30 percent can be put in a Class II landfill. He explained that the contents of a jet rodger would have a much higher moisture content than this. Jet rodger contents are typically sewer sludge, rocks and silt.



below the rims near Canyon Creek earlier this year in the Yellowstone Valley, and bald eagles are identifiable by its hooked beak, wide white patches under the wings and on the tail feathers at maturity.

Outlook photo by Jennifer Draper

Landfill woes continue

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The Eastern A Divisional boys basketball tournament will be in Sidney Feb. 17-19. Tickets, also priced at \$15 for adults and \$12 for students, go on sale Thursday morning, Feb. 10, at the high school.

The Class A state tournament will be in Bozeman Feb. 24-26, the same weekend that the District 6-C tournament is held in Laurel.

As a result of Thamke's investigation, the city will be required to excavate the contaminated soil from the locations in the landfill where the jet rodger was discharged. Thamke said this soil will be stockpiled and analyzed before it can be disposed of. He said he is not anticipating any hazardous waste from the site, and the soil, once tested and approved, will probably be disposed of in the Billings landfill.

Thamke said he will require a compliance plan from the city by the middle of February and removal of the contaminated soil as soon as the ground thaws.

He said the city will not be assessed any fines at this point, but that could change if the city does not keep within the compliance schedule. Thamke did not estimate the cost of the clean-up to the city, but said the soil will have to go through extensive testing.

The city has had numerous problems with the final closure of the landfill, including one monitoring well registering a significant contamination level of nitrates in the groundwater.

According to a letter from the DHES, the well has registered five times the allowable level of nitrates in the groundwater since May 1993. (See related story in this issue). Thamke said that it was "possible" that the city's discharging the jet rodger contents at the landfill may be contaminating the groundwater, but this won't be known until the soil can be excavated and tested.

The Laurel City Council voted in 1990 to close its Class II landfill and sign a contract with the City of Billings for solid waste disposal because of new, more stringent federal regulations which made it too expensive for the city to operate its landfill.

The city opened a container site near the old landfill in September 1990 and began hauling raw garbage collected throughout the city to Billings for disposal. Laurel residents could use the container site for disposal of yard clean-up refuse, washers, dryers and items normally taken to the old landfill.

Thamke told the Outlook that it has never been legal, and has not been legal in the past three years, to dump the contents of a jet rodger in a Class II landfill unless the landfill has a drying bed for the sludge or a specially prepared and lined pit for disposal. Thamke said there is no landfill in the state that currently has a drying bed. He said that nothing with a moisture content greater than 30 percent can be put in a Class II landfill. He explained that the contents of a jet rodger would have a much higher moisture content than this. Jet rodger contents are typically sewer sludge, rocks and silt.

Blind CCTO:

DEAN BASSETT

805 Ridge Dr.

LAUREL, MT 59044

On the Record

Wind fans brush fire

Laurel firemen responded to a wind-driven fire north of Laurel Saturday afternoon, Feb. 5, and a good intent call to a residence on the 800 block of West Maryland Lane Monday afternoon, Feb. 7.

On Saturday, firemen responded to a fire east of North 27th St. near Canyon Creek.

According to Chief Darrell McGillen, the fire apparently started from a hot ember which blew out of a bucket of ashes placed outside a home in the area. The bucket was blown over or was knocked over a few days after being placed outside the home. A hot ember in the ashes started a fire in a coulee near the

home. Firemen were able to stop the fire at the mouth of the coulee, preventing it from spreading to a nearby farm house. The site of the fire was relatively accessible, and firemen were able to surround the fire and extinguish it.

On Monday afternoon, firemen were called to a residence on the 800 block of West Maryland Lane to an apparent house fire.

When firemen arrived, they discovered that an exhaust vent in the basement over a stove was the cause of smoke and steam outside the home.

City Court report

Jim M. Glasgow, Jr., Laurel, speeding, \$65.
Jeana M. Branstetter, Laurel, right of way violation, \$65.
Thomas Martinez, Billings, criminal trespass, \$315 fine; privacy in communication violation, \$315 fine.
Kenneth E. Lang, Laurel, expired registration, \$40.
Dennis Lee Carter, Laurel, no insurance, \$265 fine, 10 days in jail suspended.
Cheryl Storey, Laurel, dog at large, \$25.
Cynthia M. Mayer, Laurel, resisting arrest, \$265 fine, 180 days in jail suspended; disorderly conduct, \$115 fine, 10 days in jail suspended.
James Scott Patterson, Laurel, third DUI, \$1,015 fine, ACT program, 365 days in jail with 292 suspended.

Ambulance report

The Laurel Volunteer Ambulance Service responded to five calls in the past week, including three calls for breathing difficulties.
Feb. 4, 5:01 pm., transported a 76-year-old man with a fractured hip to Deaconess Medical Center in Billings. At 7:51 pm., transported an 84-year-old female with breathing difficulty to Deaconess Medical Center. At 10:18 pm., transported a 44-year-old woman with difficulty breathing to Deaconess Medical Center. At 11:40 pm., transported a 10 month old female with breathing difficulty to St. Vincent Hospital in Billings.
Feb. 5, 3:48 pm., responded to a 55-year-old male who had fainted. He was not transported.

Births

Dylan Frank Kramer

A son, Dylan Frank, was born to Frank and Toni Kramer of Billings, at 8:14 pm., Friday, Feb. 4, 1994, at St. Vincent Hospital in Billings. Dylan weighed 8 pounds and measured 21 inches in length. He joins two sisters, Haley Alyisa, 3 years old, and Shelby Lyn, 2 years old. Dylan's grandparents are Ronald and Cheryl Kramer of Billings; Jim and Patty Oblander of Red Lodge; and Leonard and Pepper Lamb of Mesa, AZ. His great-grandparents are Norton and Dorothy Higgins of Billings; Roy and Gladys Lamb of Mesa; Mary Kramer of Billings and Fred and Jean Zeiler, also of Billings.

Tracy Ray Zuhoski

A son, Tracy Ray, was born at 6:42 am. on Thursday, Jan. 27, 1994, at St. Vincent Hospital in Billings to Mike and Jill Zuhoski of Laurel. Tracy weighed 9 pounds and measured 21 1/2 inches in length. His grandparents are Freida Holthues of Livingston; Berre Holthues of White Sulphur Springs; and Mike and Marge Zuhoski of Belt. Tracy's great-grandparents are Bill and Evelyn Dinsmoor of Billings; Mary Nedved of Belt; and Honorary great-grandmother Dorothy Sands of Park City.

Obituaries

Hazel Kathleen Ward

Hazel Kathleen Ward, 77, of Laurel, formerly of Chester, died Wednesday, Feb. 2, 1994, at her home from a lengthy illness. She was born Sept. 3, 1916, at Goosebills to Albert and Eva (Warehime) Fisher, one of four children. She married Gerald M. Ward, Oct. 23, 1933, at Chester and raised a family of eight. Gerald died July 1, 1992. In 1966 Gerald accepted a job with the Steward Ranches, and for the next 19 years the family lived and worked in Arizona, Texas and California. Gerald retired and they moved back to Chester in 1983, living in the Sweetgrass Lodge for two years, before moving to Laurel to live with their daughter, Karen. Hazel was very talented as a seamstress, painter and writer. She was well known for her quick humor. She was a devoted wife, mother and grandmother. She was a member of the Calvary Baptist Church at Laurel and was active in the Christian Womens Club. Survivors include: sons, Ted (Judy) Ward of Billings, and Monte (Lyn) Ward of Anaconda; daughters, Mrs. Pete (Kathleen) Schuhmacher of Chester, Mrs. Phill (Lynda) McKinney of Libby, Karen Gehrke of Laurel, Mrs. Bob (Birdie) Lawson of Kissimmee, FL, and Mrs. Paul (Sherrill) Kovacich of Anaconda; one daughter-in-law, Billy Dee Ward of Missoula; 21 grandchildren; 26 great-grandchildren; one great, great-grandson; and a brother, Marshall and wife Winnie Fisher of Fort Benton. She was preceded in death by her parents, husband, son David, two grandchildren, one great-grandchild, and two sisters, Gertrude and Dehli. Memorials are suggested to Big Sky Hospice. Funeral services were held Monday, February 7, at the Chester Alliance Church, with burial in the Chester Cemetery. Rockman Funeral Chapel of Chester was in charge of arrangements.

Daughtry honored by gun activists

The Citizens Committee for the Right to Keep and Bear Arms is pleased to announce that Dave Daughtry of Laurel has been selected to receive a Citizen of the Year Award. Daughtry has been selected to receive this Citizen of the Year Award because of a dedication to the efforts to preserve the right of the people to keep and bear arms as guaranteed by the Second Amendment to the United States Constitution according to Committee officials. "If it weren't for people like Dave Daughtry, our Constitutional rights would have been eroded years ago,"

Close-Up holds fundraiser

The students at Laurel High School will participate in the Close-Up Program this April 10 through April 16, and are planning a fund raiser this month. The Close-Up Program is designed to give students an inside look at the nation's capital and the many activities concerning our nation. The students are working to raise the money for the trip, and will accept donations. The Laurel Cenex Refinery gave the Close-Up Program a scholarship. Money for the program has also come from Laurel High School teachers who are using student helpers in their classrooms. Sue Suiter, the PDP teacher, gave two students a job in her classroom cleaning and recording grades. Diane Hooker and Karen Underwood are two other teachers who have given donations.

Laurel Library Trust Financial Statement for Fiscal Year Jan. 1-Dec.31, 1993	
Checking Account	
January 1 Balance	\$253.94
Receipts-none	0
	253.94
Expenses	
Outlook Printing	15.60
P.O. Box Rent	35.00
	50.60
December 31, 1993 Balance	203.34
Savings Account	
January 1 Balance	1,331.94
Receipts-	
Nottingham memorial	425.00
Other memorials	10.00
Sale of Histories	467.50
Interest	56.58
	959.08
December 31, 1993 Balance	2,291.02
Total Assets	
Laurel Library Trust	\$2,494.36

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From
Country Floral

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SAFECO

HEARING AID PRICES

When you see an unreasonably LOW price advertised, it may be for a bottom of the line device which could be money down the drain. Or you may be switched to a higher priced device after testing. Call Laurel Hearing Aid Service to schedule a FREE test - you may not need a Hearing Aid. If you do, you'll get a fair price on a quality product.

LAUREL
HEARING AID SERVICE

HEARING AIDS • BATTERIES • REPAIRS

109 W. Main, Laurel, MT
628-4498

SERVING THE HEARING IMPAIRED OF
SOUTHERN MONTANA

BILL HARRINGTON
OWNER/DISPENSER

Ben Franklin

Senior Citizen
Discount Day

SUNDAY, FEBRUARY 13, 1994

10% Discount

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OPEN SUNDAY 12-4
"Senior Citizens—55 or Older"

Better Quality For Less

13 Colorado Ave, Laurel, MT

Mon.-Fri., 9-6:
Sat. 9-5:30:
Sun., 12-4

Visa

MasterCard

LAUREL SCHOOL DISTRICT #7 AND #7-70 TRUSTEE ELECTION APRIL 5, 1994

The School Board Trustee three year term of Chip Lowery expires in April of this year.

Petition for Nomination Forms are available at the District Clerk's Office, Laurel School District #7 and #7-70, 410 Colorado Avenue, during the hours of 8:00 a.m. and 4 p.m., Monday through Friday. The deadline to file as a candidate for School Board Trustee is Thursday, February 24, 1994, at 4 p.m.

13-1-111 QUALIFICATIONS OF VOTER:

- No person may be entitled to vote at elections unless he/she has the following qualifications:
 - He/she must be registered as required by law.
 - He/she must be 18 years of age or older.
 - He/she must be a resident of the state of Montana and of the county in which he offers to vote for at least 30 days.
 - He/she must be a citizen of the United States.
- No person convicted of a felony has the right to vote while he/she is serving a sentence in a penal institution.
- No person adjudicated to be of unsound mind has the right to vote, unless he/she has been restored to capacity as provided by law.

Blind CCTO:

DEAN BASSETT

805 RIDGE DR.

LAUREL, MT 59044



Yellowstone Co.

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

Proof ^{fill}
PAT ^{fill}

DATE:

7/06/93

1. _____

2. Jon JD

3. Roger ^{fill}

☒ Approval

☐ Comment

☐ Necessary Action

☐ Note and Return

☐ Note and File

☐ Investigate

☐ Prepare reply

☐ Signature

☐ See Me

☐ As requested

☐ For your information

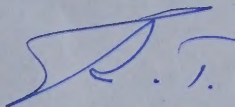
☐ Per Conversation

REMARKS:

Status of High Point Park
fill in canal.

mailed 7-7-93
en

FROM:



1. Name of the person or organization
2. Address
3. City, State, and Zip

4. Telephone Number
5. E-mail Address
6. Fax Number
7. Other Contact Information

8. Date of Birth
9. Date of Death
10. Date of Burial

11. Date of Interment
12. Date of Cremation
13. Date of Burial

14. Date of Interment
15. Date of Cremation
16. Date of Burial

17. Date of Interment
18. Date of Cremation
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26. Date of Interment
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29. Date of Interment
30. Date of Cremation
31. Date of Burial

32. Date of Interment
33. Date of Cremation
34. Date of Burial

35. Date of Interment
36. Date of Cremation
37. Date of Burial

38. Date of Interment
39. Date of Cremation
40. Date of Burial

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau

Solid Waste Program

MARC RACICOT, GOVERNOR (406) 444-1430

FAX # (406) 444-1499

STATE OF MONTANA

OFFICE LOCATION 836 Front Street
Helena, Montana

MAILING ADDRESS: PO BOX 200901
Helena, MT 59620-0901

July 7, 1993

Jim Worthington, Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Asphalt Fill in High Point City Park

Dear Jim:

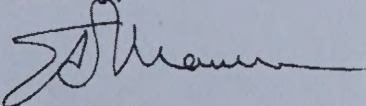
As you know, I was in Laurel on June 3, 1993 to follow up on our earlier conversations and correspondence concerning the asphalt fill in High Point City Park. I apologize for not getting this letter out sooner, I know you wanted this issue closed out before your retirement. Unfortunately, our program continues to receive calls from concerned citizens in the area.

Based on the well information, flood plain map, and information garnered from site inspections, it is our opinion that there is little potential for environmental degradation resulting from the asphalt fill at the site. The area has been graded and seems to provide positive drainage away from the site. However, the two feet of clean soil cover that we asked the City of Laurel to provide at this site in order to mitigate potential future contamination has not yet been fully applied. In order for the City to lessen their potential liability associated with this site, the appropriate amount of clean cover needs to be brought in, graded and seeded in native grasses.

We can work with the City as to the time frame that the fill material is brought in. My request at this time is for you to take any clean dirt to the site as it becomes available, and complete the reclamation of this site as soon as possible. The site looks like a weed patch now, so post-closure weed control and revegetation should be part of the closure goal.

I have enjoyed working with you, Jim, and regret that we were unable to totally put this site to rest before your retirement. I will continue to work with your successor to help protect the environmental quality in the Laurel area.

Sincerely,



Edward A. Thamke
Solid Waste Program

c: Ted Kylander R.S., P.O. Box 35033, Billings, MT 59107

F:\...Letter\Laurfill.707

File: Yellowstone County-City of Laurel, General Correspondence

City of Laurel

LAUREL, MONTANA 59044

PUBLIC WORKS

P.O. BOX 10
PHONE: 628-8791

APRIL 9, 1993

DEPARTMENT

Mr. Edward A. Thamke
Solid & Hazardous Waste Bureau
Dept. of Health & Environmental Sciences
Cogswell Building
Helena, Mt. 59620

RECEIVED
APR 12 1993

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID AND HAZARDOUS WASTE

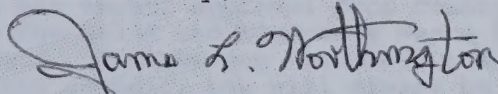
RE: Asphalt fill in High Point Park

Dear Mr. Thamke:

On November 24, 1992, I submitted a letter to you that addressed the issues pertaining to the fill that was placed in High Point Park. Subject letter had well logs, flood plain zones, and a detail of the area filled.

As stated in your letter dated June 22, 1992, we hope and trust that our actions have settled this matter in an environmentally sound matter.

Sincerely,



James L. Worthington
Public Works Director

JLW/cl

cc: Ted Kylander, R.S.
Bill Kennedy, County Commissioner

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau

Solid Waste Program

MARC RACICOT, GOVERNOR (406) 444-1430

FAX # (406) 444-1499

COPY



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION Helena, Montana

MAILING PO BOX 200901
ADDRESS: Helena, MT 59620-0901

June 22, 1992

Jim Worthington, Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Asphalt Fill in High Point City Park

Dear Jim:

Thank you for your time in showing me the area in High Point City Park where asphalt was used to fill low areas. To reiterate our conversation from June 12, 1992, you agreed to provide: (1) Well logs in area that can demonstrate depth to ground water; (2) County flood plain map showing designation of the land area. If in fact this area is in the flood plain, you may be required to remove the asphalt, or drill groundwater monitoring wells to trace potential contamination. If this is a federal wetland you could be in violation of Federal wetlands regulations.

If the fill material is not required to be removed, at least two feet (2') of clean soil should cover the asphalt, the covered area should be graded so that water entering the park runs off and away from the fill, and the covered area should be seeded in native grasses.

In the future, whether or not you get verbal approval from County people for this type of activity, check with the Solid and Hazardous Waste Bureau before you fill or dispose of any materials. Because you were both the generator and the entity that filled the area with asphalt, you will always be responsible for any potential contamination that the site causes.

I look forward to the information you are providing, and hope that we can settle this issue in an environmentally sound manner. Please feel free to call or write if you have any questions regarding this letter.

Sincerely,

Edward A. Thamke
Solid Waste Management Program

c: Ted Kylander R.S., P.O. Box 35033, Billings, MT 59107

H:\...\Letter\Laurfill.622

File: Yellowstone County-City of Laurel, General Correspondence

COPY

City of Laurel

LAUREL, MONTANA 59044

P.O. BOX 10
PHONE: 628-8791

PUBLIC WORKS

DEPARTMENT

November 24, 1992

Mr. Edward A. Thamke
Solid & Hazardous Waste Bureau
Department of Health & Environmental Sciences
Cogswell Building
Helena, Montana 59620

RECEIVED

NOV 25 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU

Subject: ASPHALT FILL IN HIGH POINT CITY PARK

Dear Mr. Thamke:

In response to your previous letter, I hereby submit the following data and exhibits, pertaining to the placement of fill material in a portion of High Point Park.

The Well log Report listed as Exhibit "A" lists all of the wells in a large area surrounding said park. Exhibit "B" is a map of Laurel with Section "10" designated on it.

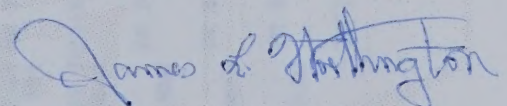
The area of the park that received the fill material is shown on Exhibit "C".

The location of the fill area in the park as it relates to the flood plain zones is shown on Exhibit "D". This Exhibit "D" shows that the area of fill is not in the flood plain.

Since your visit our city crews have collected and removed the exposed chunks of asphalt and concrete. The site has been graded and leveled.

The grading is such that water entering the park runs off and away from the fill.

Sincerely,



James L. Worthington, P.E.
Director of Public Works

cc: Ted Kylander, R.S.
P. O. Box 35033
Billings, MT 59107

REPORT WL1
06/25/92

DEPARTMENT OF NATURAL RESOURCES & CONSERVATION
WELL LOG REPORT
BY COUNTY-TOWNSHIP-RANGE-SECTION

PAGE 5709

LOT	BLK	SUBD	QTR	SEC	TWP	RGE	CO	WATER	RIGHT	WELL	RT	DEPTH	SWL	YLD	CSN	YEAR	OWNER		
2	5	03HPO	NWNE	10	02S	24E	YE	43Q	C068301	16.00	G	40	16	16	G	6.63	1988	RT 2 BOX 1162 LAUREL NELSON MERLIN	MT 40000
3	5	03HPO	NWNE	10	02S	24E	YE	43Q	C079189	10.00	G	52	16	50	G	6.00	1991	1704 RIDGE DR LAUREL HIGGINS CARL	MT 40000
			NWNE	10	02S	24E	YE	43Q	T066396	0.00		70	29	10		6.63	0000	1606 RIDGE DR LAUREL KLINE RON	MT 40000 E
19	5	03HPO	NWNE	10	02S	24E	YE	43QJ	C078022	25.00	G	0	0	0	G	0.00	1991	1603 RIDGE DR LAUREL COOP MYRA	MT 40000 M
2	5	03HPO	NENWNE	10	02S	24E	YE	43Q	C018317	15.00	G	26	11	15	G	5.56	1978	1525 E MARYLAND LN LAUREL BUFFALO ROY	MT 40000
5	4	03HPO	NWNWNE	10	02S	24E	YE	43Q	C032492	18.00	G	38	22	18	G	6.00	1981	1191 RIDGE DR RT #2 LAUREL GARCIA LYLE	MT 40000 A
10	1	03HPO	S2NWNE	10	02S	24E	YE	43Q	C011592	15.00	G	42	11	50	G	0.00	1977	RR 2 BOX 1170 LAUREL LAUSCH DOUGLAS	MT 40000
18	5	03HPO	W2NWNE	10	02S	24E	YE	43Q	C008594	40.00	G	0	0	0	G	0.00	1976	1608 EAST MARYLAND LANE LAUREL GREEN GARY	MT 40000 L
20	5	03HPO	W2NWNE	10	02S	24E	YE	43Q	C018052	30.00	G	43	14	30	G	0.00	1978	PO BOX 61 LAUREL BRANSTETTER HAROLD	MT 40000
5	1	03HPO	N2NE	10	02S	24E	YE	43Q	C066349	30.00	G	41	9	30	G	6.63	1987	1607 E MARYLAND LN LAUREL HALL LOWELL	MT 40000 W
3	4	03HPO	N2NE	10	02S	24E	YE	43Q	C072273	35.00	G	0	0	0	G	0.00	1989	1906 E MARYLAND LAUREL YOUNG RICHARD	MT 40000 L
17		03NGB	NWSWNE	10	02S	24E	YE	43QJ	C024293	10.00	G	0	0	0	G	0.00	1979	1705 RIDGE DR LAUREL GABRIAN LEWIS	MT 40000 N
16	5	03HPO	NENW	10	02S	24E	YE	43QJ	C003851	30.00	G	50	18	45	G	6.62	1974	1603 E 6TH LAUREL MAKOFF DONALD	MT 40000 J
			NENW	10	02S	24E	YE	43QJ	C006244	15.00	G	26	13	20	G	0.00	1975	1333 E MARYLAND LAUREL PLETCHER RONALD	MT 40000 E
9	4	03HPO	N2NENW	10	02S	24E	YE	43QJ	C013389	35.00	G	45	25	30	G	6.62	1977	1182 RIDGE LAUREL HUNT FRED	MT 40000
13	1	03HPO	SEENENW	10	02S	24E	YE	43QJ	C017195	10.00	G	44	14	30	G	6.00	1978	RIDGE DRIVE LAUREL POLANCHEK ROBERT	MT 40000 J
15	1	03HPO	SEENENW	10	02S	24E	YE	43QJ	C019111	20.00	G	44	12	20	G	7.00	1978	1408 E MARYLAND LN LAUREL NAUMAN RICHARD	MT 40000 A

EXHIBIT A

REPORT WL1
06/25/92

DEPARTMENT OF NATURAL RESOURCES & CONSERVATION
WELL LOG REPORT
BY COUNTY-TOWNSHIP-RANGE-SECTION

PAGE 5710

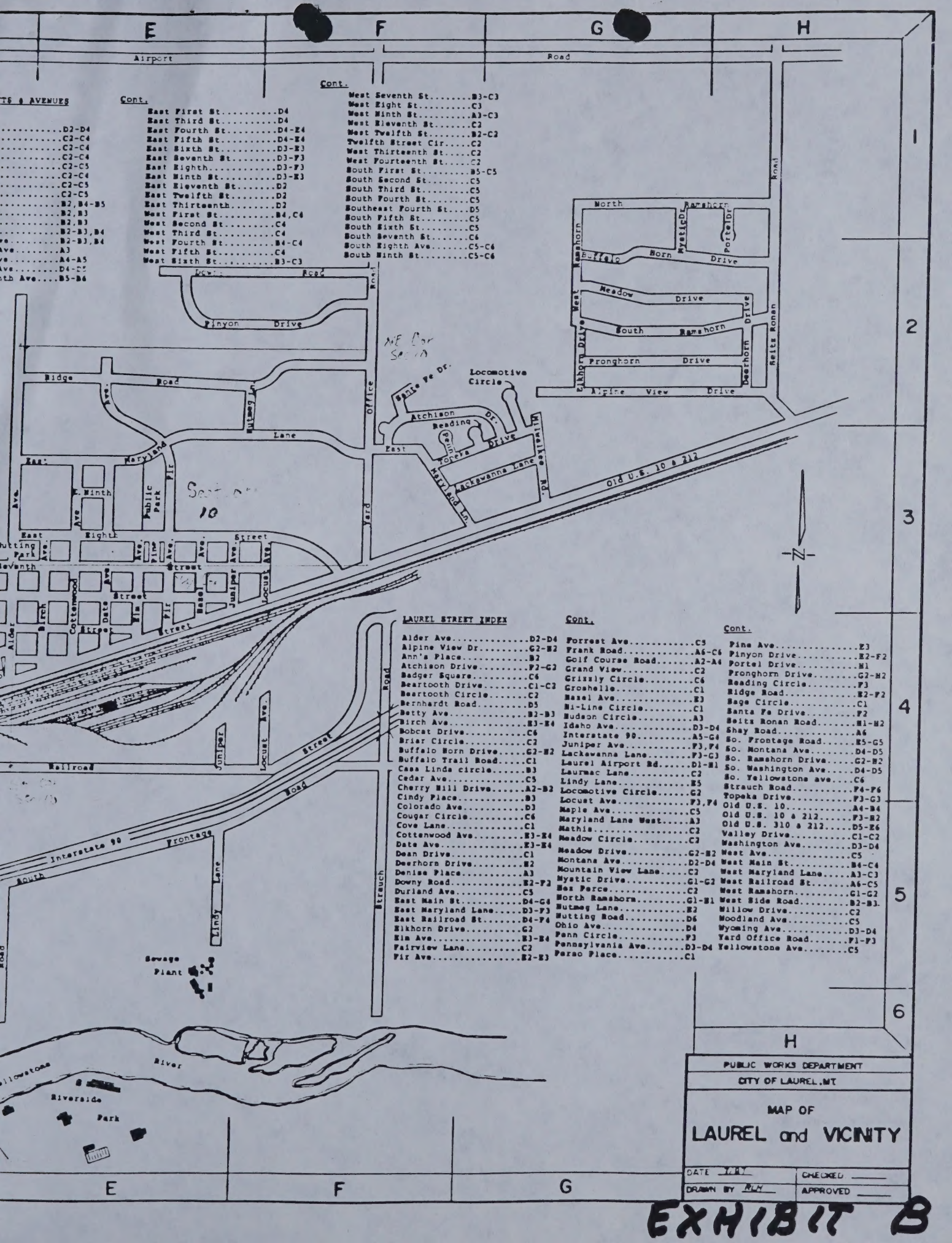
LOT	BLK	SUBD	QTR	SEC	TWP	RGE	CO	WATER	RIGHT	WELL	RT	DEPTH	SWL	YLD	CSN	YEAR	OWNER		
14	5	03HPO	W2NENW	10	02S	24E	YE	43QJ	C010786	15.00	G	48	10	50	G	0.00	1976	RT 2, BOX 1094 LAUREL BUERKLEY HAROLD 3611 SPOTTED JACK S LOOP BILLINGS	MT 40000 L
2	4	03HPO	NWNW	10	02S	24E	YE	43QJ	C030865	10.00	G	33	12	10	G	6.63	1980	ZINDLER TRACY 1715 RIDGE DRIVE LAUREL	MT 20000 J
1	3	03HPO	NENWNW	10	02S	24E	YE	43QJ	C079832	20.00	G	18	0	40	G	6.00	1992	NAUMAN RUSSELL 1025 RIDGE DR LAUREL	MT 40000 W
			SWNWNW	10	02S	24E	YE	43QJ	C005518	40.00	G	0	0	40	G	0.00	1975	GROSS JACK 501 BIRCH AVE LAUREL	MT 40000 J
9	2	03HPO	SWNWNW	10	02S	24E	YE	43QJ	C015807	17.00	G	0	0	23	G	0.00	1977	BARNARD PENNY RT 1 BOX 2712B LAUREL	MT 40000 J
012			SESENW	10	02S	24E	YE	43QJ	W208865	25.00	G	0	0	100	G	0.00	1953	BRENDEN CARL 1319 E 8TH ST LAUREL	MT 40000 H
6	2	03MOG	SWNW	10	02S	24E	YE	43Q	C064499	30.00	G	27	4	30	G	6.00	1987	PLUMMER ADDIE 3323 LYNN BILLINGS	MT 40000 J
6	2	03MOG	SWNW	10	02S	24E	YE	43Q	C064500	30.00	G	25	4	30	G	6.00	1987	PLUMMER ADDIE 3323 LYNN BILLINGS	MT 20000 J
			N2	10	02S	24E	YE	43QJ	C006435	8.00	G	32	11	8	G	0.00	1975	JOHNSTON DAVID RT 1 BOX 431 LAUREL	MT 20000 H
7	4	03HPO	N2N2	10	02S	24E	YE	43Q	C064411	5.00	G	43	20	50	G	6.00	1987	FOOS DAN 1415 RIDGE DR LAUREL	MT 40000 W
5	5	03HPO	N2N2	10	02S	24E	YE	43Q	C064451	18.00	G	49	20	18	G	6.00	1987	GROVE JERRY 1174 RIDGE DR LAUREL	MT 40000 E
			N2N2	10	02S	24E	YE	43Q	T020400	0.00		0	0	0		0.00	0000	PLETCHER RONALD 1182 RIDGE LAUREL	MT 40000 R
			N2N2	10	02S	24E	YE	43QJ	C007239	20.00	G	42	5	50	G	6.00	1976	SCHEELER LYNN 1011 ALDER LAUREL	MT 40000 N
9	1	03HPO	N2N2	10	02S	24E	YE	43QJ	C010553	18.00	G	41	13	18	G	0.00	1976	CARLSON LARRY 1702 E MARYLAND LAUREL	MT 40000 A
			N2N2	10	02S	24E	YE	43QJ	C010952	10.00	G	25	6	50	G	0.00	1977	GARCIA CHERYL RR 2 BOX 1170 LAUREL	MT 40000 L
5	22	03HPO	N2N2	10	02S	24E	YE	43QJ	C020669	19.00	G	41	12	15	G	6.00	1978	ECKHARDT DAWN 1723 E MARYLAND LN BOX 1435 RT 2 LAUREL	MT 40000 P
8	5	03HPO	N2N2	10	02S	24E	YE	43QJ	C042934	5.00	G	0	0	0	G	0.00	1982	SARKELA CHARLES	

REPORT WL1
06/25/92

DEPARTMENT OF NATURAL RESOURCES & CONSERVATION
WELL LOG REPORT
BY COUNTY-TOWNSHIP-RANGE-SECTION

PAGE 5711

LOT	BLK	SUBD	QTR	SEC	TWP	RGE	CO	WATER	RIGHT	WELL	RT	DEPTH	SWL	YLD	CSN	YEAR	OWNER			
4	5	03HPO	N2N2	10	02S	24E	YE	43QJ	C054012	20.00	G	48	20	20	G	6.00	1983	1310 RIDGE DR LAUREL HULL RT 1 BOX 309 JOLIET	DONALD	MT 40000 A
8	1	03NBS	NESW	10	02S	24E	YE	43QJ	C007205	20.00	G	0	0	60	G	0.00	1976	GOMON 510 DALE AVE LAUREL	DOROTHY	MT 10000 E
30	1	03NBS	NESW	10	02S	24E	YE	43QJ	C041110	20.00	G	0	0	0	G	0.00	1982	WORKMAN C-W RANCH 619 JUNIPER LAUREL	CURTIS	MT 40000 W
12	2	03NUT	NENESW	10	02S	24E	YE	43Q	C062370	20.00	G	15	7	30	G	2.88	1986	ROLISON 602 JUNIPER AVE LAUREL	KATHRYN	MT 40000 J
25		03NBR	NENESW	10	02S	24E	YE	43QJ	C047836	95.00	G	0	0	0	G	0.00	1982	BRENDEN 1619 E 8TH ST LAUREL	HABEL	MT 40000 J
8	17	03NBS	NWSW	10	02S	24E	YE	43QJ	C012814	20.00	G	0	0	60	G	0.00	1977	GARCIA 410 DATE AVE LAUREL	SHIRLINE	MT 40000 F
8	3	03NBS	NWSW	10	02S	24E	YE	43QJ	C019757	40.00	G	0	0	0	G	0.00	1978	WENNEMAR 1102 SUNHAVEN LAUREL	RAYMOND DRIVE	MT 40000 K
20	7	03NBS	NWNWSW	10	02S	24E	YE	43QJ	C012687	16.00	G	0	0	16	G	0.00	1977	HERGETT 611 BIRCH AVE LAUREL	RICHARD	MT 40000 C
2	19	03NBS	SWNWSW	10	02S	24E	YE	43QJ	C035312	25.00	G	0	0	0	G	0.00	1981	CAMPBELL 417 ALDER AVE LAUREL	ROBERT	MT 40000 T
1		03NGB	SESESW	10	02S	24E	YE	43QJ	C032224	30.00	G	30	10	30	G	6.63	1981	FORSTNER RT 2 BOX 177 LAUREL	GEORGE	MT 40000 H
2		03NGB	SESESW	10	02S	24E	YE	43QJ	C032283	78.00	G	30	12	30	G	6.63	1981	STRECKER RT 2 LAUREL	GERALD	MT 40000 P
6	17	03NBS	NESWSW	10	02S	24E	YE	43QJ	C035755	40.00	G	18	8	0	G	4.00	1981	MORRISON 416 DATE AVE LAUREL	ETHMER	MT 40000 J
			SENE	11	02S	24E	YE	43Q	0142870	0.00		0	0	5		0.00	0000	BURLINGTON NORTHERN INC PO BOX 579 MILES CITY		MT 10000 J
			NENE	13	02S	24E	YE	43Q	C029039	30.00	G	27	8	30	G	5.56	1980	WATKINS ROUTE 1 LAUREL	ELAINE	MT 40000 T
			NWNE	13	02S	24E	YE	43Q	C072867	30.00	G	26	8	30	G	6.00	1989	HANDEGARD 1389 N RIVER RD LAUREL	LARRY	MT 40000 P
			NESENE	13	02S	24E	YE	43Q	C017904	60.00	G	25	12	60	G	4.50	1978	ROYCE RTE 1 LAUREL	IONE	MT 40000 V
			S2NWNW	13	02S	24E	YE	43Q	C049498	10.00	G	31	12	50	G	4.50	1982	BRASWELL	L	



STREETS & AVENUES

Cont.

- East First St.....D4
- East Third St.....D4
- East Fourth St.....D4-E4
- East Fifth St.....D4-E4
- East Sixth St.....D3-E3
- East Seventh St.....D3-F3
- East Eighth St.....D3-F3
- East Ninth St.....D3-E3
- East Eleventh St.....D2
- East Twelfth St.....D2
- East Thirteenth St.....D2
- West First St.....B4-C4
- West Second St.....C4
- West Third St.....C4
- West Fourth St.....B4-C4
- West Fifth St.....C4
- West Sixth St.....B3-C3

Cont.

- West Seventh St.....B3-C3
- West Eighth St.....C3
- West Ninth St.....A3-C3
- West Eleventh St.....C2
- West Twelfth St.....B2-C2
- Twelfth Street Cir.....C2
- West Thirteenth St.....C2
- West Fourteenth St.....C2
- South First St.....B5-C5
- South Second St.....C5
- South Third St.....C5
- South Fourth St.....C5
- Southeast Fourth St.....D5
- South Fifth St.....C5
- South Sixth St.....C5
- South Seventh St.....C4
- South Eighth Ave.....C5-C4
- South Ninth St.....C5-C4

LAUREL STREET INDEX

- Alder Ave.....D2-D4
- Alpine View Dr.....G2-E2
- Ann's Place.....B2
- Atchison Drive.....F2-G2
- Badger Square.....C6
- Beartooth Drive.....C1-C2
- Beartooth Circle.....C2
- Bernhardt Road.....D5
- Betty Ave.....B2-B3
- Birch Ave.....B3-E4
- Bobcat Drive.....C6
- Briar Circle.....C2
- Buffalo Horn Drive.....G2-E2
- Buffalo Trail Road.....C1
- Cass Linda Circle.....B3
- Cedar Ave.....C5
- Cherry Hill Drive.....A2-B2
- Cindy Place.....B3
- Colorado Ave.....D3
- Cougar Circle.....C6
- Cove Lane.....C1
- Cottonwood Ave.....B3-E4
- Date Ave.....E3-E4
- Dean Drive.....C1
- Deerhorn Drive.....B2
- Denise Place.....A3
- Downy Road.....E2-F2
- Durland Ave.....C5
- East Main St.....D4-G4
- East Maryland Lane.....D3-F3
- East Railroad St.....D4-F4
- Eikhorn Drive.....G2
- Ela Ave.....B3-E4
- Fairview Lane.....C2
- Fir Ave.....E2-E3

Cont.

- Forrest Ave.....C5
- Frank Road.....A6-C6
- Golf Course Road.....A2-A4
- Grand View.....C2
- Gristly Circle.....C4
- Groshele.....C1
- Basal Ave.....E3
- Hi-Line Circle.....C1
- Hudson Circle.....A3
- Idaho Ave.....D3-D4
- Interstate 90.....A5-G4
- Juniper Ave.....F3-F4
- Lackawanna Lane.....F3-G3
- Laurel Airport Rd.....D1-M1
- Laurnac Lane.....C2
- Lindy Lane.....E5
- Locomotive Circle.....G2
- Locust Ave.....F3-F4
- Maple Ave.....C5
- Maryland Lane West.....A3
- Mathis.....C2
- Meadow Circle.....C2
- Meadow Drive.....G2-E2
- Montana Ave.....D2-D4
- Mountain View Lane.....C2
- Mystic Drive.....G1-G2
- Box Perce.....C2
- North Ramshorn.....G1-B1
- Notting Road.....E2
- Ohio Ave.....D6
- Penn Circle.....D4
- Pennsylvania Ave.....D3-D4
- Perano Place.....C1

Cont.

- Pine Ave.....E3
- Pinyon Drive.....E2-F2
- Portel Drive.....M1
- Pronghorn Drive.....G2-H2
- Reading Circle.....F3
- Ridge Road.....E2-F2
- Sage Circle.....C1
- Santa Fe Drive.....F2
- Selma Ronan Road.....M1-M2
- Shay Road.....A6
- So. Frontage Road.....E5-G5
- So. Montana Ave.....D4-D5
- So. Ramshorn Drive.....G2-H2
- So. Washington Ave.....D4-D5
- So. Yellowstone Ave.....C6
- Strauch Road.....F4-F6
- Topaka Drive.....F3-G3
- Old U.S. 10.....A4-B4
- Old U.S. 10 & 212.....F3-E2
- Old U.S. 310 & 212.....D5-E6
- Valley Drive.....C1-C2
- Washington Ave.....D3-D4
- West Ave.....C5
- West Main St.....B4-C4
- West Maryland Lane.....A3-C3
- West Railroad St.....A6-C5
- West Ramshorn.....C1-G2
- West Side Road.....B2-B3
- Willow Drive.....C2
- Woodland Ave.....C5
- Wyoming Ave.....D3-D4
- Yard Office Road.....F1-F3
- Yellowstone Ave.....C5

PUBLIC WORKS DEPARTMENT
CITY OF LAUREL, MT.
MAP OF
LAUREL and VICINITY
DATE 1/87
DRAWN BY RLM
CHECKED _____
APPROVED _____

EXHIBIT B

EXHIBIT C

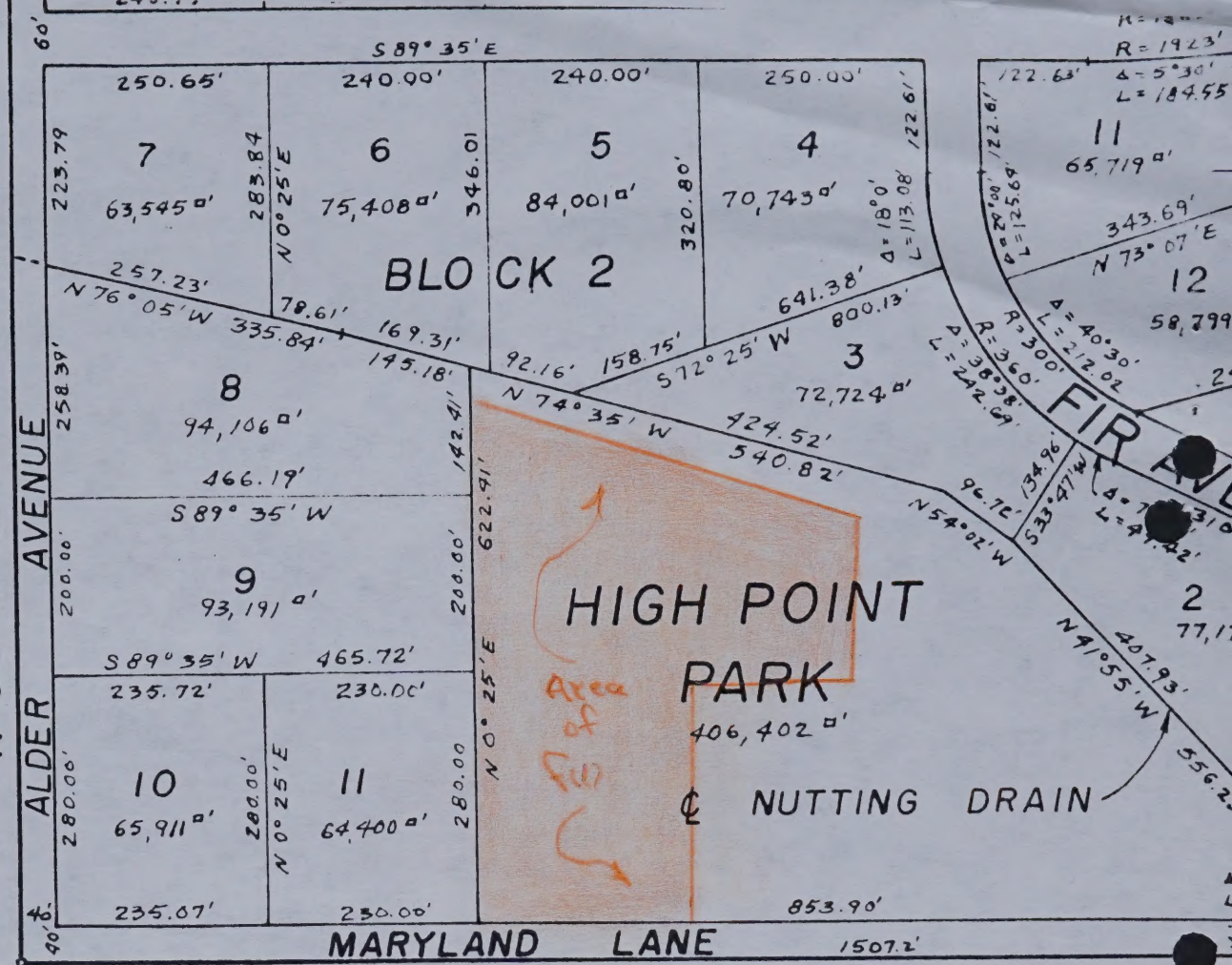
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ALDER AVENUE



Megan Subdivision

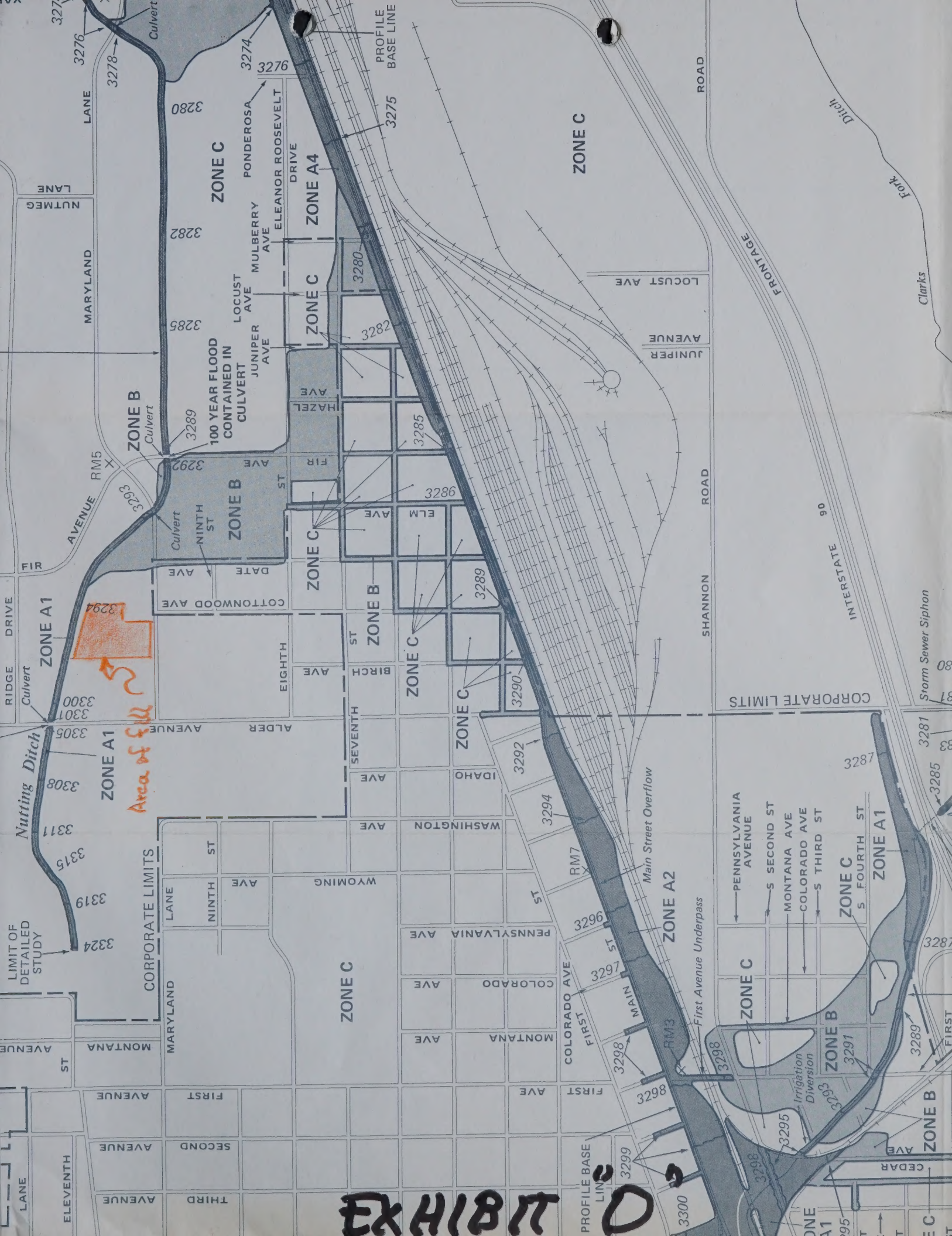
EXHIBIT C

DOMINION



1350 B, E 00.13, N









ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO: Proof FH

DATE: 8/17/92

1. Joe JD

2. Roger PC

3. Dunne DGR

☒ Approval

☐ Comment

☐ Necessary Action

☐ Note and Return

☐ Note and File

☐ Investigate

☐ Prepare reply

☐ Signature

☐ See Me

☐ As requested

☐ For your information

☐ Per Conversation

REMARKS:

Send:

copy of Wanthington Letter (6/29/92)
(all - Rogers + cc's)

copy of Rogers' letter (9/7/92)
(All cc's)

copy of Dillard's letter (7-13-92)
(all - Rogers + cc's)

FROM: JW

mailed
8-18-92
ch

Yellowstone
Naturel #203

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DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO: Proof FH

DATE: 8/17/92

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FROM: JW

mailed
8-18-92
DGR

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau

Solid Waste Program

(406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

August 17, 1992

Chuck Rogers, Mayor
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Town of Laurel Landfill (license #203) Groundwater Report & Closure

Dear Mayor Rogers:

This letter is in response to your letter of August 7, 1992 requesting an extension in the deadline for submittal of a work plan to do a hydrogeologic and soils study of the city landfill site toward installing groundwater monitoring system. The department will grant a **30 day extension of that deadline** (until September 9, 1992) due to the recent illness of your City Engineer. My understanding is that GeoResearch, Inc. has been retained by the City to conduct this study and design the monitoring system.

Jim Worthington's letter of June 29, 1992 (copy enclosed) requested an extension of Interim Transfer Station License (existing container site license #301) until January 1, 1993. In that letter he committed the City of Laurel to two conditions. Those conditions were:

- 1) The City of Laurel will submit a **complete license application** for this site as a transfer station or permanent container site at this location by **January 1, 1993**.
- 2) The City of Laurel will submit a **closure plan** for the existing City of Laurel Class II landfill (license #203) and bring the facility into **complete compliance** with departmental rules by **January 1, 1993**.

Compliance includes the monitoring of groundwater at the existing landfill site according to an approved plan. The extension of the Interim Transfer license until January 1, 1993 is also **approved**.

The timing of the actual closure of the landfill is a decision that the City must decide. There are several factors the City should be aware of in that decision making process that may impact the timing of closure. First, Mr. Worthington has repeatedly told program personnel that the existing landfill site is full or has extremely limited available capacity available, and that the final cover activities are almost completed. Secondly, under the administrative rules concerning groundwater monitoring if this site completes closure by January 1, 1993 there is a provision to allow the City to request to end the semi-annual monitoring after six sampling events (3 years) if no problems are found, rather than the required 30 years post closure monitoring. Third, if the

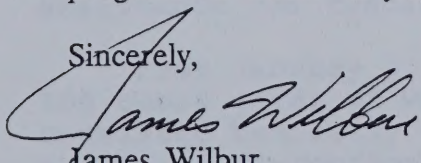
City of Laurel Extension letter
August 17, 1992
Page 2

landfill continues to operate past October 9, 1993, additional federal requirements become effective and must be complied with, including provisions for methane monitoring, surface water runoff detention ponds, and potentially installation of liner and leachate collection systems. The cost of the required monitoring and additional design features must be weighed against the available capacity of the existing site and available alternatives.

Closure of the existing landfill is complete only when the work outlined in an approved closure plan including final soil cover, drainage controls, groundwater monitoring, and access controls are in place. When the City notifies the department that this work has been completed, the annual licensing fees are suspended for this license and final closure inspection by program personnel is scheduled (see copy of Jon Dilliard's memo enclosed). After the inspection verifies the closure work at the site is completed according to the approved plan, then the site is considered "officially closed". Post closure care and monitoring is then the primary responsibility of the City.

As we have discussed the licensing of a permanent transfer station has been the proposed plan of action for the City the last two years. A decision on this course of action should be made in the near future since the process of licensing is not necessarily simple or quick and the existing container site was designed and licensed as a temporary stopgap measure. The possibility of licensing a Class III landfill at the transfer station site is possible, but must be planned and licensed before implementation. It is usually easier to incorporate both facilities into one application and licensing process and planning is usually better if the design incorporates both activities originally. The staff in the solid waste program is available to assist the City with the activities discussed in this letter and to help getting Laurel's solid waste program on track. If you have any further questions, do not hesitate to contact me.

Sincerely,


James Wilbur
Environmental Specialist IV

cc: Cal Cumin, City Planning Dept., 907 Avenue B; Billings, MT 59102
Curt Coover, GeoResearch, Inc., 910 Helena Ave., Helena, MT 59601
Kevin Chappell, Surface Management Bureau, Department of State Lands, 1625
Eleventh Ave., Helena, MT 59620
Dr. George Sheckleton, Yellowstone Co. Health Officer, City County Health
Department, P.O. Box 35033, Billings, MT 59107

enclosures: copy of Worthington letter (6/29/92) & Dilliard Memo (7/13/92)

path: Jamesw/wp/sw/ltrs92/laurel.817

file: Yellowstone Co/City of Laurel landfill (license #203)-gw/closure & SW transfer site (license #301) - licensing

City of Laurel

LAUREL, MONTANA 59044

June 29, 1992

P.O. BOX 10
PHONE: 628-8791

PUBLIC WORKS
DEPARTMENT

RECEIVED

JUN 30 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SERVICES
SOLID AND HAZARDOUS WASTE DIVISION

James Wilburn
Environmental Specialist IV
Solid and Hazardous Waste Bureau
Dept. of Health and Environmental Sciences
State of Montana
Cogswell Building
Helena, Mt. 59620

Subject: Interim Transfer Station License Extension

Dear Mr. Wilbur:

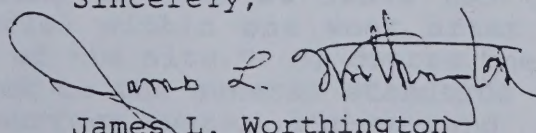
In accordance with item #3 of your letter dated May 6, 1992, the City of Laurel hereby formally requests an extension of the term of license for the interim transfer station (license #301). We accept the requirements set forth in items #1 and #2 of said referenced letter.

We have received a proposal from GEO Research, Inc., to assist in preparing a closure plan for the old City of Laurel Class II Landfill, License #203. It is anticipated that a contract will be accepted in the near future. We are also reviewing the InterCap and the Public Works Money Database programs for financial assistance for funding of the closure and transfer site projects.

From January 1, 1991 to December 31, 1991 we disposed of 500 cubic yards of wastes at the City of Laurel Landfill. This consisted basically of old shingles that piled up from our extensive re-roofing of roofs damaged during the previous years hail storm. Your solid waste inspector suggested that instead of placing them in our 40 yard containers and hauling them to the Billings Landfill that we place them in the Laurel Landfill.

I will report to you all activities that occur, as they occur, and our plans to meet the requirements you have established.

Sincerely,



James L. Worthington
Director of Public Works

JLW/cl

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES



STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499

STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

MEMORANDUM

TO: Landfill Operators, County Commissioners, and other interested persons

DATE: July 13, 1992

FROM: Jon A. Dilliard, Solid Waste Management Program

SUBJECT: Landfill Closures and Chlorofluorocarbons.

It seems like no matter how well you plan, something always comes up that would have been easier to handle at an earlier date. Case in point - Immediately after we mailed our last solid waste bulletin two important issues came to light that could have been addressed in the bulletin. Since these issues are important enough to require the attention of all landfill operators, we are now sending out this memorandum.

The first issue at hand is landfill closure. It appears that there is some confusion out there as to what constitutes landfill closure and how the new annual licensing fees apply to closure. The Solid Waste Management Rule [ARM 16.14.702 (10)] defines "Closure" as "...the process by which an owner or operator of a facility closes all or part of a facility in accordance with a department approved closure and all applicable closure requirements." ARM 16.14.702 (9) defines "Closed unit" as "...any solid waste disposal unit, trench, cell or area that no longer receives any solid waste and has been closed in accordance with department rules." The closure requirements or the department rules that are referred to are found in various places in the rules. ARM 16.14.509(1)(h) requires that a site's operation and maintenance plan include a "plan for the reclamation of the disposal site and the land's ultimate use." In ARM 16.14.521 (2)(a) it states "All Class II sites using landfiling methods shall compact and cover solid waste with a layer of at least six (6) inches of approved earth cover material at the end of each operating day and at least two (2) feet of approved earth cover material within one week after deposit of solid waste at any portion of the site." Of course the "graded to drain" requirement goes back to the general standards of landfill siting conditions that surface water run-on and run-off be controlled at the site to prohibit the water from getting into

areas that are being filled or have been filled with solid wastes. So, you can see in the rules a landfill is not considered "closed" until the reclamation work is complete. That includes the preparation of a plan if one has not previously been submitted and approved, the application of 2 foot of cover soil at the site, and the necessary drainage controls. Closure is not complete if a landfill simply quits accepting wastes.

This brings me to the issue of license fees for landfills that are closing. As stated in ARM 16.14.405 (4) "License fees will end when the department declares the facility 'closed'. The license fee will be prorated on a quarterly basis by the department for the year of closure." Therefore, a landfill undergoing closure is responsible for all annual licensing fees up through the quarter in which the final soil cover is applied and all required reclamation work is completed. Of course, if a landfill does not accept any additional solid waste during the closure work, it is not responsible for the volume fee (\$0.31 per ton) for the quarters that no waste was received, but the base fee still applies.

One of the reasons for the continuation of the licensing fees until a landfill is officially closed, is to encourage the quick reclamation of the site. The longer a landfill remains without the proper final cover, the higher the chances are for further environmental damage such as the infiltration of water into the wastes and the resulting generation of leachate or the continued production of disease vectors or litter problems. You may have noticed in the rules quoted above that the final 2 foot of cover should be applied within one week after the final deposition of waste in any area of the site. Logically, a landfill that had been following this requirement and the details of their closure plan, should be able to "close" within one week. We realize that it may not always be possible to apply final cover in one week, but it still should be followed as closely as possible. Also, since the licensing fees are based on actual department workload to license and regulate solid waste systems, fees are still needed during closure work. When a landfill is undergoing closure, it is one of the more work intensive times for the program personnel. It requires the review and approval of plans or plan revisions, meetings with the owners/operators, inspections prior to, during, and after closure work, and all the associated paperwork of closing out a landfill's license and files. Without the fees, the program could not maintain the personnel to handle closure in a timely fashion, or would have to raise fees on operating landfills to cover the costs incurred from one that was closing.

As you can see, it is important to plan ahead for the closure of a landfill. You should have your closure plans drawn up and approved by the department in advance. You should also close out each area as you finish with the required 2 foot of cover and proper drainage. We also recommend that closed areas be re-seed to prevent erosion. This way when you are ready to "lock the gate for good" there will be little work left to finish the closure and no worries about having quarter after quarter of license fees to

pay while the work is being completed.

For your convenience, I have enclosed landfill closure guidelines that the program distributed over a year ago.

* * * * *

Another issue of importance to solid waste facility operators is chlorofluorocarbons (CFCs) or refrigerants. This is the gas that is contained in the cooling units of refrigerators, freezers, air conditioning units, or any other self contained cooling device. Starting July 1st of this year, the federal Clean Air Act of 1990 prohibits the release of CFCs to the atmosphere. Since landfills and other solid waste systems generally get a fair share of household or commercial devices that contain CFCs, we contacted the Environmental Protection Agency (EPA) to ask them about this law's impact on disposal sites. Originally, we were told that the new law did not apply to the disposal of these items and only affected repair and recycling operations. Then, just about the time we were ready to mail out our recent bulletin, we received a second call from the EPA telling us that the new law does indeed apply to landfills and other disposal situations that may, through their crushing or compaction process, cause the release of CFCs.

In part the law reads "Effective July 1, 1992, it shall be unlawful for any person, in the course of maintaining, servicing, repairing, or disposing of any appliance or industrial process refrigeration, to knowingly vent or otherwise knowingly release or dispose of any class I or class II substance used as a refrigerant in such appliance (or industrial process refrigeration) in a manner which permits such substance to enter the environment." The impact of this law means that solid waste disposal sites that accept items which contain CFCs must make sure that the CFCs are removed prior to disposal. The removal of CFCs requires certified equipment and technicians and the collected CFCs can be sold for reuse. Basically this law leaves landfills which continue to accept these CFC appliances with several options.

- 1) Require written certification that the CFCs have been removed from the person wishing to dispose of the appliance.
- 2) Accept the appliance "as is" and contract or make arrangements with a certified remover to come and remove the CFCs prior to disposal.
- 3) Purchase or lease the necessary equipment and obtain the proper certification to do the CFC removal at the site.

Those operators that have agreements with recyclers to take these types of appliances may want to contact them to find out what their plans are.

Unfortunately, at this time we have very little more information to give to you. We have heard rumors that the equipment to remove CFCs costs about \$3,000.00 and that contract removal runs around \$35.00 per appliance, but remember these are just rumors. We are continuing to collect information and will be in contact with the EPA to find out more. As we obtain new information we will pass it along to you. Keep an eye out for future articles about this issue in upcoming program bulletins.

City of Laurel

LAUREL, MONTANA 59044

P.O. BOX 10
PHONE: 628-8791

CITY COUNCIL

DEPARTMENT

August 7, 1992

James Wilbur
Environmental Specialist IV
Solid and Hazardous Waste Bureau
Montana Department of Health and Environmental Sciences
Cogswell Building
Helena, MT 59602

Dear Mr. Wilbur:

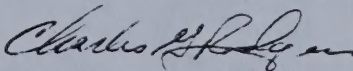
As a followon to our recent conversation and that between you and Mr. Cumin, we would like to request an extension of the deadline for submittal of the work plan for closure of landfill license #203 to September 16, 1992. Jim Worthington, our City Engineer and the person most knowledgeable about Laurel's solid waste issues, is presently in the hospital after suffering two strokes, and we are presently scrambling to become informed on all the issues involved.

September 16 is the day following our City Council meeting which will allow us to officially act on issues we need to address in the interim.

Our garbage committee met last night and agreed to immediately contract with GeoResearch for the hydrogeologic study and the closure plan. We are not up to speed on the issues involved in the transfer station, a possible Class III request, re-cycling, and so forth but plan to address these concerns in the extension period.

Thank you for your patience.

Sincerely,



Chuck Rogers
Mayor

CC:ljn

RECEIVED

AUG 10 1992

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID AND HAZARDOUS WASTE BUREAU

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO:

PROOF LH
PAT PRC

DATE:

6/19/92

1. _____

2. LOW JD

3. ROGER SHANE DOR

- | | | |
|--|---|---|
| ☒ Approval | ☐ Comment | ☐ Necessary Action |
| ☐ Note and Return | ☐ Note and File | ☐ Investigate |
| ☐ Prepare reply | ☐ Signature | ☐ See Me |
| ☐ As requested | ☐ For your information | ☐ Per Conversation |

REMARKS:

LETTER CONCERNING ASPHALT AS

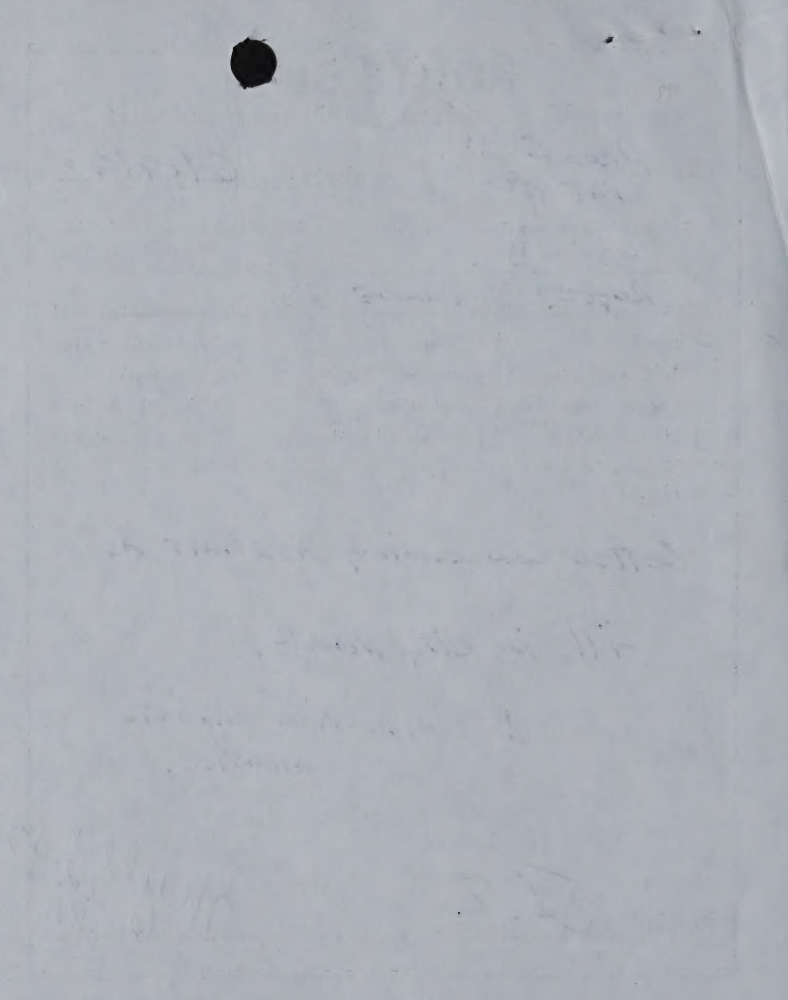
FILL IN CITY PARK.

& INSPECTION REPORTS
ATTACHED.

FROM:

E.T.

mailed
6-22-92
lh



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau
Solid Waste Program
(406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499

STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

June 22, 1992

Jim Worthington, Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Asphalt Fill in High Point City Park

Dear Jim:

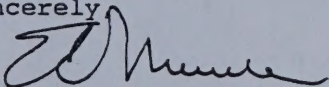
Thank you for your time in showing me the area in High Point City Park where asphalt was used to fill low areas. To reiterate our conversation from June 12, 1992, you agreed to provide: (1) Well logs in area that can demonstrate depth to ground water; (2) County flood plain map showing designation of the land area. If in fact this area is in the flood plain, you may be required to remove the asphalt, or drill groundwater monitoring wells to trace potential contamination. If this is a federal wetland you could be in violation of Federal wetlands regulations.

If the fill material is not required to be removed, at least two feet (2') of clean soil should cover the asphalt, the covered area should be graded so that water entering the park runs off and away from the fill, and the covered area should be seeded in native grasses.

In the future, whether or not you get verbal approval from County people for this type of activity, check with the Solid and Hazardous Waste Bureau before you fill or dispose of any materials. Because you were both the generator and the entity that filled the area with asphalt, you will always be responsible for any potential contamination that the site causes.

I look forward to the information you are providing, and hope that we can settle this issue in an environmentally sound manner. Please feel free to call or write if you have any questions regarding this letter.

Sincerely,



Edward A. Thamke
Solid Waste Management Program

c: Ted Kylander R.S., P.O. Box 35033, Billings, MT 59107

H:\...\Letter\Laurfill.622

File: Yellowstone County-City of Laurel, General Correspondence

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES
Solid and Hazardous Waste Bureau
Solid Waste Program

STAN STEPHENS, GOVERNOR

(406) 444-1430

FAX #(406) 444-1499



STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

May 8, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jim Worthington
Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

Subject: Interim Transfer Station license expiration, Landfill requirements-
Groundwater monitoring notification

Dear Mr. Worthington:

I have reviewed your renewal application for the City's solid waste management system license. The responses to some application questions indicates some misunderstanding of the two solid waste licenses the City has. I will try to clarify these issues in this letter.

First, the license issued to the City for Interim Solid Waste Transfer Site or container site (License #301) on May 3, 1990 was limited to a term of two years (until May 3, 1992) to allow the City (1) to close the old landfill and (2) to design and construct a permanent transfer station. A condition of the interim license was "This license must be either modified or replaced within two (2) years of date of issue." Also the container site was allowed to be constructed to less stringent standards since this was to be a temporary facility. This license has now expired. Since the City has failed to meet the two objectives of closure of the old landfill and design, licensing, and construction of a permanent transfer station the department will entertain a request to extend the term of this interim license until January 1, 1993 with certain conditions. Those conditions will be the following:

1. The City of Laurel will submit a **complete license application** for this site as a transfer station or permanent container site at this location by **January 1, 1993**. An application is usually not considered complete until response to departmental review of the initial application and all issues has been resolved. Therefore, the City will need to submit the initial application two to three months prior to January 1st to allow time for review and response that can realistically be expected.

2. The City of Laurel will submit a **closure plan** for the old City of Laurel Class II landfill and expansion area (license #203) and bring the facility into **complete compliance** with departmental rules by **January 1, 1993**.
3. The written request for extension of the term of license for the interim transfer station (license #301) shall include specific acceptance of these conditions and must be received by the department by **June 30, 1992**.

Secondly, the renewal form for the City of Laurel landfill (license #203) indicated a desire to combine the interim transfer station license and the landfill license. This is not possible due to the fact that only licensed facilities may be combined if they operate in a complementary manner, such as a container site collecting waste for disposal at a specific landfill operated by the same entity. Your container site collects waste for disposal at the City of Billings landfill not the City of Laurel landfill, therefore they may not be combined. Also, the answer to the question concerning annual tonnage disposed of at the landfill was not answered. Only the tonnage collected at the container site and transported to the Billings landfill was given. The tonnage or volume of all wastes disposed of at the City of Laurel landfill between January 1, 1991 and December 31, 1991 is necessary to provide information to calculate billing for the fiscal year 1993 (begins July 1st) license renewal fee. This information must be provided promptly for this process to continue.

The closure of the landfill requires submittal of a closure plan for review and approval by the department. This plan should include a map of the site indicating location of waste disposal, depth of cover and additional cover needs to meet final cover requirements, and final cover topographic contours of the site. Also all drainages on the site need to be shown and all diversion structures planned to provide surface water runoff and runoff requirements must be included with design standards for these diversions. Permeability of final soil cover should be addressed. The State standard is maximum permeability of 1×10^{-3} centimeters/second (cm/sec). However, if household waste has been disposed of in this disposal site after October 9, 1991 more stringent federal regulations [Subtitle D - 40 CFR part 258.60(a)(1&2)] for final cover soil permeability standards are in effect.

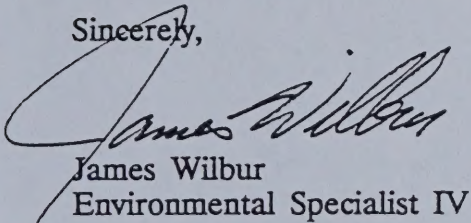
Groundwater monitoring is required of the City of Laurel landfill (license #203) facility by section 75-10-207(1) (Montana Code Annotated) of the Solid Waste Management Act. Therefore the groundwater monitoring system will be an integral component of your closure plan and post closure responsibilities. This is your formal notification under 16.14.703(1)(c)(ii) ARM that a hydrological and soils study of the site must be completed for the purpose of implementing the required groundwater monitoring system at this facility. This section of the rules requires that a work plan must be submitted 90 days after this notification by the department. Also the number and location of all down gradient groundwater quality monitoring wells at the site must be approved in writing by the department (16.14.704[2] ARM). A sampling

City of Laurel Solid Waste letter
May 6, 1992
Page 3

and analysis plan must be submitted to the department prior to any groundwater sampling (16.14.706[2] ARM]. I am enclosing a copy of landfill groundwater rules and forms for your reference and use. You may note that if the City landfill **officially** closes (requires all State requirement to be met) and does not discover evidence of groundwater contamination during the six semi-annual sampling episodes following closure, the City may request to be allowed to discontinue monitoring.

The past delays in dealing with the City's solid waste facilities has created the current situation of tight time frames and quickly approaching deadlines for a number of issues discussed in this letter. If you have any questions or if I may be of assistance in these matters do not hesitate to contact me. This is especially important that communication be instituted by the City concerning the deadlines stated in this letter should problems arise.

Sincerely,



James Wilbur
Environmental Specialist IV

cc: Chuck Rogers, Mayor, City of Laurel, P.O. Box 10, Laurel, MT 59044
Dr. George Sheckleton, Yellowstone Co. Health Officer, City County Health
Department, P.O. Box 35033, Billings, MT 59107
Kevin Chappell, Surface Management Bureau, Department of State Lands, 1625
Eleventh Ave, Helena, MT 59620

path: jamesw/sw/ltrs.92/laurel.506
file Yellowstone Co./Laurel transfer station (#301) & Laurel landfill (#203)/licensing

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Jim Worthington
Director of Public Works
City of Laurel
P.O. Box 10
Laurel, MT 59044

5. Signature (Addressee)

J. Worthington

6. Signature (Agent)**4a. Article Number**

P 081 658 651

4b. Service Type

- | | |
|---|---|
| ☐ Registered | ☐ Insured |
| ☒ Certified | ☐ COD |
| ☐ Express Mail | ☐ Return Receipt for Merchandise |

7. Date of Delivery

MAY 11 1992

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, November 1990 ★ U.S. GPO: 1991-287-006

DOMESTIC RETURN RECEIPT

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1984-446-014

Sent to	<i>Jim Worthington</i>
Special and No. of Pub. Works	<i>City of Laurel</i>
P.O., State and ZIP Code	<i>P.O. Box 10</i>
Postage	<i>Laurel MT 59044</i>
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	<i>5-8-92</i>

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

P 081 658 651

ROUTE SLIP

DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES

TO: *Proctor*
1. *Tim W JW*

DATE: *17 Jan 92*

2. _____
3. _____

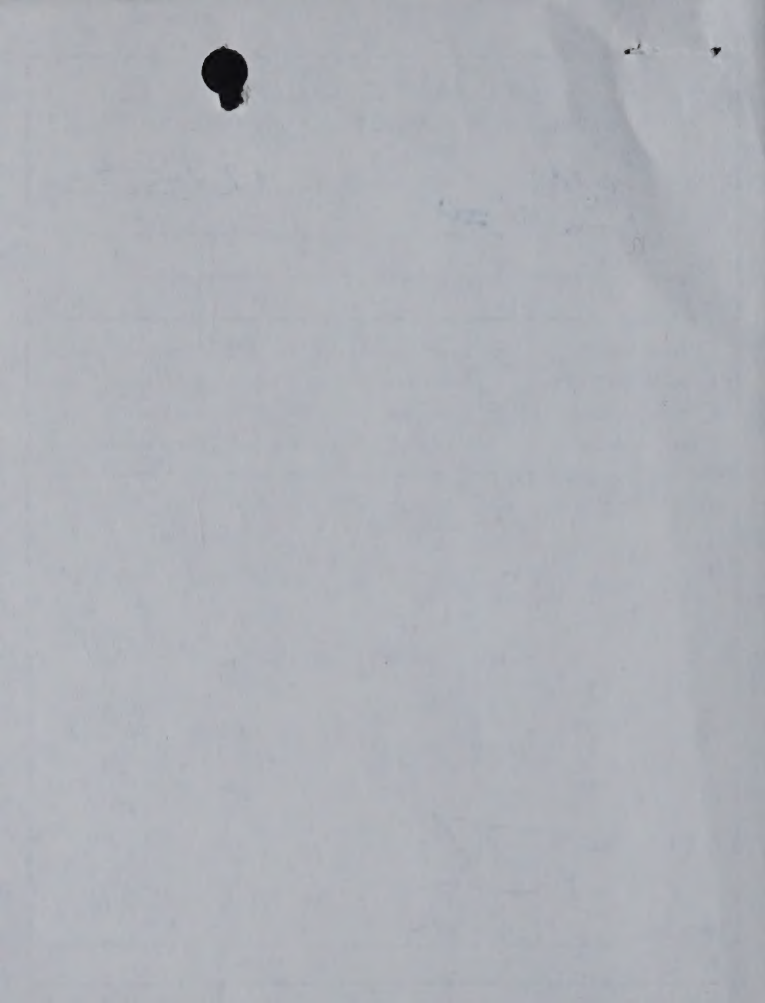
- | | | |
|--|--|---|
| ☐ Approval | ☐ Comment | ☐ Necessary Action |
| ☐ Note and Return | ☐ Note and File | ☐ Investigate |
| ☐ Prepare reply | ☐ Signature | ☐ See Me |
| ☐ As requested | ☒ For your information | ☐ Per Conversation |

REMARKS:

*Yellowstone Co. / Laurel
Landfill
#24*

FROM:

Raf.



DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

Solid and Hazardous Waste Bureau, Solid Waste Program

Telephone (406) 444-1430

STAN STEPHENS, GOVERNOR

FAX #(406) 444-1499

STATE OF MONTANA

OFFICE 836 Front Street
LOCATION: Helena, Montana

MAILING Cogswell Building
ADDRESS: Helena, MT 59620

21 January 1992

Ed Steffans
316 Laurmac Lane
Laurel, MT 59044

SUBJECT: Landfill application information.

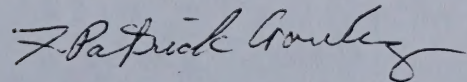
Dear Mr. Steffans:

Enclosed is an information packet for the licensing of what is called a Class II landfill in Montana. Class II landfills are the kind that accept normal household garbage.

The thick Federal Register is what is known as "Subtitle D". These are the Federal regulations on waste disposal under 1984 amendments to the Resource Conservation and Recovery Act. Our State regulations will be changing in the next two years in order to adjust to these new regulations.

I hope this does not overwhelm you. If you have any further questions on this or any other solid waste questions, please feel free to call.

Sincerely,



F. Patrick Crowley
Environmental Specialist III

Enclosures (8): Group II Wastes list, License Application, License Review Sequence, ARM 16.14.5, ARM 16.14.7, 75-10 MCA, Subtitle D.

file: Yellowstone Co.\Laurel Landfill #24.
path:shw\frankc\wp\landfill\applicat\laurel.

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES



STAN STEPHENS, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

FAX # (406) 444-2606

HELENA, MONTANA 59620

MEMORANDUM

DATE: January 20, 1989

TO: Director's Office, Dept. of Health & Env. Sciences

FROM: Jon A. Dilliard, Solid & Hazardous Waste Bureau J.A.

SUBJECT: Media Contact

On January 19, 1989 I was contacted by Claire Johnson of the Billings Gazette. She informed me she was doing a story on the Laurel landfill and the town's effort to relocate or replace their landfill. Ms. Johnson questioned me on the current conditions at the Laurel landfill, why they are looking to change the operation, what options they are looking at, and whether I felt the situation was critical. We also discussed the expected impacts of the proposed EPA Subtitle D regulation changes on landfills, what the changes involve and whether other areas of the state are discussing changes to their solid waste programs in response to the regulations.

Ms. Johnson was informed that I was with the Department of Health and Environmental Sciences - Solid & Hazardous Waste Bureau.

cc: Larry Lloyd, Division Administrator
Duane Robertson - S&HWB
Vic Andersen - S&HWB
Jim Leiter - S&HWB

JD/ba

Big Sky Haul-Away

P.O. BOX 30331
BILLINGS, MONTANA 59107
(406) 248-5400

October 8, 1987

James A. Flisrand
Public Works Director

Dear James:

In an attempt to assist you in filing our application for a transfer site, we have described below an operation and maintenance plan.

DAYS AND HOURS FACILITY WILL BE OPEN

Transfer site and Class 3 landfill will be open Monday thru Saturday Summer months (April thru October) 9:00 a.m. until 6:00 p.m. Winter months (November thru March) 9:00 a.m. until 4:00 p.m.

ACCESS CONTROL

The site will be provided with a caretaker during all hours open to the public. The transfer facility will be fenced to eliminate access during closed hours.

EQUIPMENT

A 755 John Deer Cat will be on location to maintain the Class 3 pit and also used to load all Class 2 materials into the proper containers. We will use a portable compactor and open top 40 cubic yard containers at the transfer site.

TRAFFIC CONTROL

There will be a caretaker along with signs regulating proper dumping locations and traffic control.

GENERAL DESCRIPTION

All Class 2 refuse will be dumped on a concrete pad and loaded into stationary compactors and hauled to the Billings Landfill. The transfer area will be contained by a 15 foot fence to ensure litter control. All Class 3 material will be dumped in the pit and buried as necessary to control litter. There will be signs and supervision to ensure proper dumping procedures.

PROVISION FOR LITTER CONTROL

All possible steps will be taken to ensure a litter free facility. The transfer facility will be fenced and proper loading methods will be enforced.

Dennis Johnston, President
Big Sky Haul-Away Inc.

dj:tl

DEPARTMENT OF HEALTH AND
ENVIRONMENTAL SCIENCES

BILLINGS REGIONAL OFFICE



TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

AIR QUALITY BUREAU (406) 657-2617
WATER QUALITY BUREAU (406) 657-2616
FOOD & CONSUMER SAFETY BUREAU (406) 657-2619
SOLID & HAZARDOUS WASTE BUREAU (406) 657-2618

December 21, 1988

Mr. Jim Flisrand, City Engineer
City of Laurel
P.O. Box 10
Laurel, MT. 59044

RECEIVED
DEC 23 1988
MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU

Re: EPA Toxic Waste Definition and Testing for Fuel Contaminated Soils

Dear Jim:

Enclosed is a copy of the EPA definition of hazardous wastes. This should give you a good idea of what tests to require of anything of a suspicious nature going to the landfill. The law does allow material that meets the definition of hazardous waste to be disposed of in a Class II landfill in quantities of less than 220 pounds per month per generator. This does not mean that the landfill has to accept them, however.

The disposal of tank bottom sludges can only be done at Class II landfills if the sludge has been solidified and does not contain any hazardous constituents or is less than 220 pounds after it is solidified. As for the disposal of fuel contaminated soils, it is currently recommended that the soil be stockpiled at the landfill in such a way as to allow for the weekly tilling or aeration of the soil. The weekly aeration should continue until the soil no longer has the odor or appearance of the fuel contamination. The soil can then be used for final cover material.

Thank you for your cooperation in this matter and please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Jon A. Dilliard".

Jon A. Dilliard
Solid & Hazardous Waste Bureau
Billings Regional Office

encl.

cc Jm Leiter, Solid & Hazardous Waste Bureau, Cogswell Bldg., Helena, MT.
File

STATE OF MONTANA



NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE MONTANIAN PUBLISHING COMPANY.

December 21, 1988

Mr. Jim Evers, City Engineer
City of Laurel
P.O. Box 10
Laurel, MT 59044

Re: EPA Toxic Waste Definition and Testing for Fuel Contaminated Soils

Dear Sir:

Enclosed is a copy of the EPA definition of hazardous wastes. This should give you a good idea of what is meant by the term. The law does allow materials that meet the definition to be used in a Class II landfill in quantities of less than 100 pounds per year per generator. This does not mean that the landfill has to accept them, however. The amount of land bottom sludge can only be done at Class II landfills. The sludge has been collected and does not contain any hazardous constituents or is less than 100 pounds after it is stabilized. As for the disposal of fuel contaminated soils, it is currently recommended that the soil be stabilized at the landfill in such a way as to allow for the weekly filling in sections of the soil. The weekly section should contain water and the soil no longer has the odor or appearance of the fuel contamination. The soil can then be used for that same material.

Thank you for your cooperation in this matter and please do not hesitate to contact us if you have any questions.

Sincerely,
John D. Williams

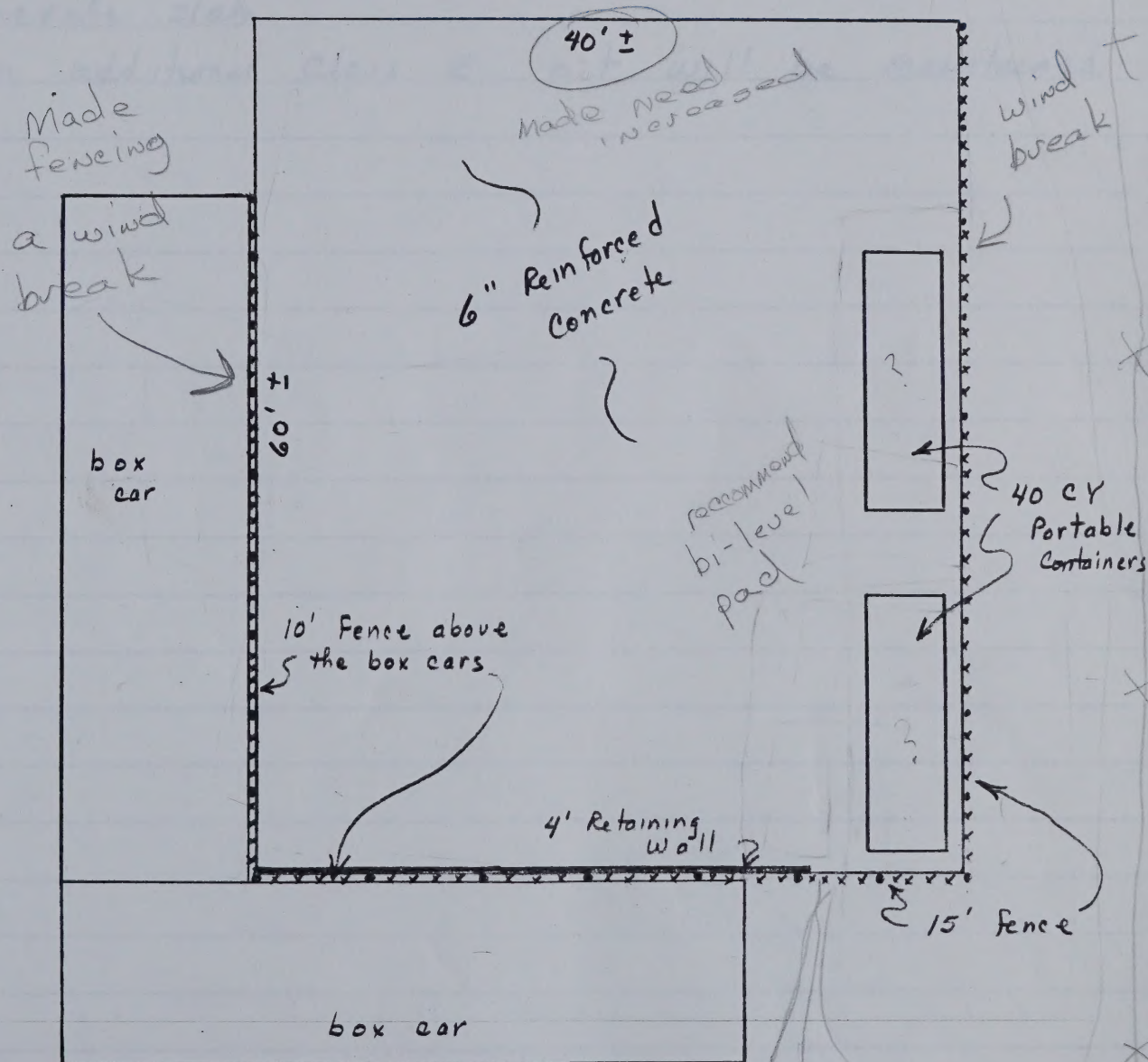
John D. Williams
Solid & Hazardous Waste Bureau
Billings Regional Office

encl.

cc: Mr. Evers, Solid & Hazardous Waste Bureau, Copeland Bldg., Helena, MT.
File

RECEIVED
DEC 23 1988
MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL RECORDS
SOLID & HAZARDOUS WASTE SECTION

Land fill
entrance



perimeter
fence

1. 18" footings around perimeter of concrete slab
2. South end will have retaining wall, to push against, for loading purposes.
3. Traffic will back on to concrete slab & dump.
4. Land fill caretaker will sort, if necessary on concrete slab.
5. An additional class 2 pit will be maintained

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

Solid & Hazardous Waste Bureau
(406) 444-2821

September 14, 1987

Dennis Johnston
Big-Sky Haul-A-Way
P.O. Box 31101
Billings, Montana 59107

Dear Dennis:

Here is a copy of the licensing requirements for Class III landfills and an application form to give you an example of the procedure. I have marked the procedure in yellow on the rule copy. There is normally no hearing unless the public raises issues which have not been adequately addressed by the applicant or in our review of the proposed site. This is usually less likely for a Class III site, since there is less chance of impacting the neighbors.

There are several differences in Class III requirements and Class II requirements. First, true group III waste does not need to be covered daily. Dirt, rock, vehicle tires, and similar kinds of wastes only need to be covered "periodically". You have to be careful to interpret the wastes correctly, however, to avoid the daily cover. Demolition wastes, for example, may contain sheet rock, paper, cardboard, plastic or metal residues which may need more frequent cover.

Second, the depth to groundwater and soil type are not as critical for group III wastes.

One thing to keep in mind is that a Class III site still needs supervision and controlled access, so some manpower, fencing, etc. may still be in order.

I hope this information is useful. If you have other questions or I may be of additional assistance, please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "James E. Leiter".

James E. Leiter

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

Solid & Hazardous Waste Bureau
(406) 444-2821

September 2, 1987

Dennis Johnston
Big Sky Haul-Away
P.O. Box 30331
Billings, Montana 59107

Dear Dennis:

Thank you for your letter of August 28, 1987. We have been in contact with the City of Laurel on several occasions about this same situation, but apparently, I have not been able to make the situation clear enough to be understandable to the city.

Since there is no limit to the number of solid waste licenses in any given area, the city would not lose its solid waste license in the event a transfer license is issued to your firm. As long as they continue to operate a facility, they will retain their license. A license, once issued, is valid until it is surrendered or revoked. In this regard, the city could retain their license even if they were not actively operating the site, as long as they met the current requirements.

If some waste material is still planned for disposal at the existing site, we might modify the license, depending on the particular wastes to be deposited there. Or, if the city and you were to mutually agree to have you get a new license for the landfill as well, then we might issue the license directly to you. This still would not limit the city's ability to operate the site themselves at some time in the future were they to so desire. They could retain their license to operate the site as long as they make this desire known at the time a license were issued to you. Normally, we only have one license per site, but we could hold one "valid though inactive".

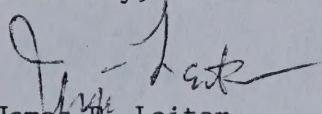
If the landfill were used for materials which did not require daily cover, and the city or you intended to operate the landfill in a different fashion than we have on record, then we will need to change the license operation and maintenance plan, since that is an integral part of the license.

Finally, there is no problem I can think of that would prevent you

from establishing a transfer facility at the existing landfill site, as long as it is not built over buried waste material. In fact, many times it is easier to site the facility at a former waste site due to the public acceptance which already exists.

I hope this information is helpful. If there are other questions, you need further clarification or I can be of further assistance, please contact me at any time.

Sincerely,



James E. Leiter

cc: City of Laurel
Yellowstone Co. Health Dept.

Big Sky Haul-Away

P.O. BOX 30331
BILLINGS, MONTANA 59107
(406) 248-5400

August 28, 1987

Jim Leiter
Montana Solid & Hazardous Waste Bureau
Dept. of Health & Environmental Sciences
Cogswell Building--Room 201
Helena, MT 59620

Dear Jim:

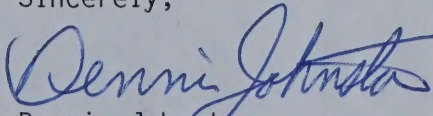
We are in the process of implementing a transfer site at the Laurel landfill and have come up against some resistance from Ernie Davis, Assistant City Engineer. He is under the opinion that if a transfer site is installed the city of Laurel will loose its Class 2 landfill permit. We are looking for answers to the following questions:

1. If we are granted a permit for a transfer site, will the city of Laurel loose its Class 2 permit?
2. Is there a problem with locating a transfer site at the existing landfill as long as it is not built over burried garbage?

It is our intent to transfer refuse to the Billings landfill from the Laurel area. All construction and brush or Class 3 material will be placed in the existing pit at the Laurel landfill. Please answer these questions so we can present it to the Laurel garbage committee.

If you have any questions please call me at 248-5400. We appreciate your attention in this matter.

Sincerely,



Dennis Johnston
Big Sky Haul-Away

DJ:bk

RECEIVED
AUG 31 1987
MONTANA DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES
CITY OF LAUREL

Bid Sky Haul-Away

P.O. BOX 30331
BILLINGS, MONTANA 59107
(406) 248-5400

August 22, 1987

Dear Sir:

Enclosed is a letterhead memorandum

dated August 18, 1987, regarding the

proposed transfer of Class 2

hazardous waste to the

City of Billings.

We are in the process of conducting a transfer site at the landfill. This site is located on the west side of the landfill, near the Class 2 waste transfer station. We are currently conducting a site assessment and will be submitting a report to the Montana Department of Health and Environmental Sciences. We are also conducting a public hearing on the proposed transfer of Class 2 hazardous waste to the landfill. We are currently accepting comments from the public and will be submitting a report to the Montana Department of Health and Environmental Sciences. We are also conducting a public hearing on the proposed transfer of Class 2 hazardous waste to the landfill. We are currently accepting comments from the public and will be submitting a report to the Montana Department of Health and Environmental Sciences.

1. If we are granted a permit for a transfer site, will the City of Billings issue the Class 2 permits?

2. Is there a problem with locating a transfer site at the existing landfill as long as it is not built over buried garbage?

It is our intent to transfer waste to the Billings landfill from the landfill site. All construction and work of Class 2 material will be placed in the existing site at the landfill. Please answer these questions to us and forward it to the landfill through our office.

If you have any questions please call me at 248-5400. We appreciate your attention to this matter.

Sincerely,

Deanna L. Smith
Deanna L. Smith
City of Billings

RECEIVED

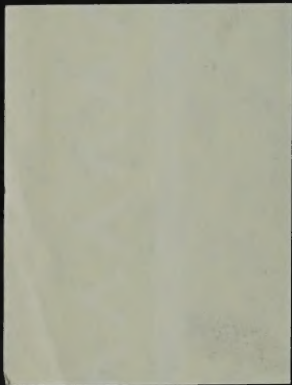
SEP 01 1987

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU

gasoline
diesel

NW

Corner



DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

Solid & Hazardous Waste Bureau
Telephone: 406-444-2821

HELENA, MONTANA 59620

February 28, 1986

Lorrie McKnight
Jim's Excavating Service, Inc.
P.O. Box 787
Billings, MT 59103

Dear Ms. McKnight:

Bill Potts has referred your letter of February 24th regarding the Burlington Northern fuel spill clean up to me for response.

The soil-diesel fuel mixture would not be classified as hazardous waste and could therefore be disposed of at an approved landfill site. Bill Potts has contacted Mr. Jim Flisrand, Laurel City Public Works Director, and discussed the possibility of disposing of these materials at their landfill.

We would approve this landfill if the soil-diesel fuel mixture was spread on the ground surface in an upper portion of the site. This disposal method would allow the fuel to degrade through volatilization and soil bacteria action. A good location for this disposal would be the north-west corner of the Laurel landfill.

Our office can only approve of the disposal of these materials at the Laurel City landfill. You will have to contact the city of Laurel directly for their acceptance and disposal specifications.

If you or the city of Laurel has any questions, please contact our office.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Geach".

John Geach
JG:jv

CC: Jim Flisrand, PWD City of Laurel, P.O. Box 10 Laurel, MT 59044
Scott Peterson, Billings
Lou Ladas, Yellowstone City-County Health Dept.



JIM'S EXCAVATING SERVICE, INC.

P. O. BOX 787
BILLINGS, MONTANA 59103
(406) 259-3904

February 24, 1986

Bill Potts
Solid & Hazardous Waste
State Dept. of Health
Cogwell Building
Helena, Mt. 59620

Dear Mr. Potts,

In regard to our conversation of today, please note the job of reference is for Burlington Northern at approx. mile marker 51, south of Laurel. I spoke with Mel Burda of BN shortly after speaking with you, and he said that you should be familiar with the derailment dated January 1, 1986. He said we would be requested to move approx. 30 to 50 c.y. of soil. The soil has approx. 4000 gals. of #2 diesel fuel only. Per our conversation, please forward to me a letter that will allow this material to be transferred and dumped without specific requirements for hazardous wastes.

Thank you so much for your prompt attention in this matter.

Sincerely,

Lorrie McKnight

Lorrie McKnight
Jim's Excavating Service, Inc.

RECEIVED

FEB 25 1986

**MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID & HAZARDOUS WASTE BUREAU**

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

"CERTIFIED"



TED SCHWINDEN, GOVERNOR

COGSWELL BUILDING

STATE OF MONTANA

HELENA, MONTANA 59620

December 19, 1984

Dave Michael
City of Laurel
P.O. Box 10
Laurel, MT 59044

Re: MPDES Permit No. MT-0020311
Sludge Disposal

Dear Mr. Michael:

Sludge handling and disposal is an integral part of your wastewater treatment facility. Part II Section A.6 of the above-referenced permit states the following concerning removed substances: "Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed of in a manner such as to prevent any pollutant from such materials from entering state waters."

In order to determine if you are in compliance with this section of your permit, we will need the following information:

- 1) What is the final disposition of the sludge removed from your drying beds?
- 2) What method is used to transport this sludge to its final disposal site?
- 3) What quantity of sludge (tons per year) is transported to the disposal sites?
- 4) Do you maintain a record of disposal of sludge from drying beds?
- 5) If so, what information is included in the record?
- 6) How many times per year is sludge removed from the drying beds?
- 7) Do you perform any quantitative analysis on the sludge?
- 8) If so, what analyses are being performed?

City of Laurel
December 19, 1984
Page 2

Please submit the requested information to this office within 30 days of receipt of this certified letter.

If you have any questions or comments regarding this matter, feel free to contact me at this office (444-2406). Thank you for your cooperation with MPDES.

Sincerely yours,

Richard J. Pedersen
Environmental Specialist
Water Quality Bureau
Environmental Sciences Division

RJP:ew

cc: Const. Grants
Jim Leiter, SWB ✓

LAUREL

Scope of Work

B. Waste Characteristics and Volumes

Question whether the amount of time is required for this work element that is listed in the proposal. Given the fact that the Yellowstone County solid waste study has already addressed this task to an extent it is questionable that over a month and 120 consultant man hours would be needed. It should be noted that the Yellowstone County study included a 2 day weighting program.

D. Market Alternatives

While the proposal states that city officials and the consultant will keep the public informed, it does not specify how. If public meetings are going to be held then the proposal should state how and when.

yellowstone
Laurel

SINGLE-SOURCE GRANT PROPOSAL SUBMITTED TO THE
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
ALTERNATIVE RENEWABLE ENERGY SOURCES PROGRAM

FEASIBILITY STUDY FOR
SOLID WASTE INCINERATION AND ENERGY
RECOVERY SYSTEM
LOCATED WITHIN OR NEAR THE CITY OF LAUREL, MONTANA

APPLICANT

City of Laurel
c/o Larry D. Herman, Mayor
P.O. Box 10
Laurel, Montana 59044
Phone: 628-8791

PROJECT CONSULTANT

Christian, Spring, Sielbach & Associates
c/o William M. King
2020 Grand Avenue
Billings, Montana 59102
Phone: 656-6000

PROJECT LOCATION

Within or near the City of Laurel as determined by the Feasibility Study

FUNDING REQUEST

\$33,900

PROJECT SCOPE

The scope of this project is to determine the feasibility of establishing a municipal solid waste disposal system utilizing incineration with recovery of energy.

PUBLIC INFORMATION ACKNOWLEDGEMENT

It is agreed that all information contained in this application is public, and the Applicant hereby waives any claim to confidentiality. In the event this proposal is funded, it is agreed that all resulting information can be made available to the public.

PROJECT ABSTRACT

The feasibility study will establish whether or not a waste-to-energy system is cost-competitive with the landfill disposal practices currently being utilized in the Laurel area.

It is the intent of this study to evaluate all administrative, environmental and technical components required to implement an alternative waste-to-energy system if found to be feasible. Should a cogeneration system prove feasible, this study will pave the way for design and construction.

TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
1. Background Information	1
2. Technical Description	3
3. Monitoring	5
4. Energy Analysis	5
5. Project Suitability	5
6. Economic Analysis	6
7. Business Arrangements	6
8. Work Schedule	6
9. Budget	6

1. BACKGROUND INFORMATION

Recently, State and Federal regulations have been in effect to control and administer the disposal of solid and hazardous waste. In the present decade, substantially due to the impact of the Resource Conservation and Recovery Act, municipalities face increasing operating costs and more and more refuse. The very stringent regulations dealing with landfilling have increased the costs of disposing of these wastes and therefore is becoming a major source of concern to municipal officials and taxpayers throughout the country. The closing of many landfills within populated areas creates the problem of moving ever-increasing amounts of refuse to newer, often remote, sites. This problem, coupled with the high cost or unavailability of suitable landfill sites, has made solid waste disposal a headache in municipal activities. Erecting environmentally sound incinerators with energy recovery systems may provide the opportunity to help keep operating budgets in line.

For the above reasons, the City of Laurel feels that incineration with energy recovery may be the answer to solve the many and difficult problems and costs associated with current landfilling practices. Laurel has two industries which are potential markets for the industrial grade steam which can be economically produced from such an incinerator system. Therefore, the City of Laurel is requesting this grant to provide answers to its solid waste disposal problems and to establish the feasibility of a cogeneration system for the benefit of taxpayers. The study is necessary to establish that such an incinerator system with energy recovery will be economically beneficial to the residents in the area.

In addition to expanding the knowledge in the field of solid waste disposal, there appear to be several advantages to completing the study. An incineration system may eliminate the environmental hazards of landfilling

such as groundwater, air and aesthetic pollution. Also, such a facility would essentially eliminate such nuisance factors as noxious odors and litter problems that are currently major complaints of citizens.

It appears that positive environmental and economical effects of incineration may be numerous. However, the most important benefit from such a system would be the replacement of a non-renewable energy source with a renewable source. A further benefit of the system will be realized by a future avoided cost to the Laurel area by not having to develop a new sanitary landfill site.

In conclusion, the City of Laurel officials hope to provide increased knowledge in solid waste management, replace a non-renewable energy source with a renewable source, and provide a cost-effective solution for their solid waste problems. Finally, a feasibility study of this type could pave the way for additional enthusiasm on renewable energy sources in other Montana cities.

2. TECHNICAL DESCRIPTION

The "Scope of Work" for this project is to determine the feasibility of establishing a municipal solid waste disposal system utilizing incineration with recovery of energy. (The recovery of energy will examine both steam and electricity recovery and determine which is more beneficial within the system). The "Scope of Work" establishes a very broad spectrum of factors. Those factors will be more thoroughly discussed in the following discussion:

A. Potential Refuse Sources

The first task involved in the feasibility study will be to determine the exact participants in the project. While the basic study is meant to involve the City of Laurel, it is also possible that surrounding municipalities may wish to dispose of their waste at the proposed incinerator thereby basically eliminating their landfills. Meetings and other type of correspondence will be initiated as part of the study with all surrounding municipalities to determine whether or not they desire to participate in the project. The point will be stressed that such participation may be economically and environmentally beneficial in lieu of operating individual municipal landfills. With the knowledge of the exact number of participants, the size of the proposed incineration system and basic cost can be estimated.

B. Waste Characteristics and Volumes

Once the number of participants are established, the determination will be made of exact types of waste being generated, i.e. a breakdown of tons of paper, glass, metals, plastics, corrugated, organics, woods and miscellaneous. It should be apparent that several days will be spent studying the participants solid waste handling systems to make that determination. Although existing records will be utilized, this determination is necessary for project success.

C. Incinerator Type and Size

All information obtained to this point will be utilized to estimate the BTU content of the refuse and will also be used to establish the basic incinerator type and size.

D. Market Alternatives

The next factor to be considered in the study will be the energy market. The key item here will be whether the buyer is interested in purchasing steam or electricity and to establish preliminary terms of a contract for the energy. Concurrent with those factors will be site location for the incinerator. Factors such as distance the energy will be transported, amounts of energy required by the buyer, etc. will be essential items to be studied.

It should be noted that throughout the conductance of the study to this point, complete familiarity with federal, state and local laws and regulations regarding the establishment of an incineration system will be undertaken. Another basic key to the success of the proposed system, which will be obtained throughout the study, will be public opinion. A favorable public toward a project can be extremely beneficial toward a successful study. The City of Laurel officials and the consultant will keep the public informed throughout the study.

E. Alternative Cost Evaluation

With the information gathered to this point, i.e. participants, waste types and volumes, energy buyers and basic incineration cost, information from the participants on landfill costs will be obtained. The landfill costs will be compared to the incineration costs with energy sales to determine if the incineration system is cost-effective. Factors involved in making the determination will be equipment type, haul distances, and associated landfilling costs.

F. Prepare Feasibility Study

The consultant will then assemble all the information obtained and prepare a feasibility report on the project. A recommendation on whether the proposed incineration system is feasible or not will be the central interest item of the report along with a discussion of how the recommendation was reached.

G. Presentation of Study

The report will be formally presented to the participants by the consultant.

3. MONITORING

The rates of steam or electricity production per unit of solid waste incinerated will be obtained from incineration system manufacturers. All other types of monitoring are not applicable for this feasibility study.

4. ENERGY ANALYSIS

The amount of steam or electrical production from the proposed incineration system will depend largely on the size of the waste processing capacity. The waste processing capacity will be determined as part of the study.

5. PROJECT SUITABILITY

It is felt that the project is quite suitable for the requested grant. The utilization of municipal solid waste as an energy source should definitely fit the realm as a renewable source. Discarded wastes should not be viewed as potential pollutants but rather as renewable energy sources. Also, the project could quite possibly solve an energy shortage situation and eliminate several landfills which are potential pollution problems.

6. ECONOMIC ANALYSIS

The proposed incinerator system will involve a revenue associated with energy production. The steam or electricity generated will be sold to a consumer to be established in the study. As energy prices increase, the economic feasibility of the system will also increase. The essence of the study, however, will establish the economic feasibility.

7. BUSINESS ARRANGEMENTS

The City of Laurel, upon receipt of the grant, intend to negotiate a formal contract for completion of the feasibility study with Christian, Spring, Sielbach & Associates (CSSA) of Billings, Montana. CSSA was chosen because of their expertise in solid waste management and close proximity to the study area. The key person with CSSA on this project is William M. King who has nine years of experience in solid waste management. Mr. King is more than qualified to conduct a study of this type.

8. WORK SCHEDULE

See Exhibit 1.

9. BUDGET

The City of Laurel does not have the staff to conduct a feasibility study of this type. The firm of Christian, Spring, Sielbach & Associates (CSSA) will conduct the entire study and present their findings to the City of Laurel. All information obtained by Laurel will be forwarded to the Department of Natural Resources and Conservation Alternative Renewable Energy Sources Program.

Exhibit 2 outlines the total cost of conducting the feasibility study and reflects the current rates of CSSA.

EXHIBIT 1

WORK SCHEDULE

FEASIBILITY STUDY FOR SOLID WASTE INCINERATION AND ENERGY RECOVERY SYSTEM LAUREL, MONTANA

TIME (Months)

WORK ELEMENT	1	2	3	4	5
A. Potential Refuse Sources					
B. Waste Characteristics and Volumes					
C. Market Alternatives					
D. Incinerator Type and Sizes					
E. Alternative Cost Evaluation					
F. Prepare Feasibility Study					
G. Presentation of Study					

EXHIBIT 2
ESTIMATED PROJECT COSTS
ESTIMATED LABOR HOURS

<u>WORK ELEMENT</u>	<u>PROJECT MANAGER*</u>	<u>ENGINEER</u>	<u>TECHNICIAN</u>	<u>CLERICAL</u>
A. Potential Refuse Sources	80	-	80	10
B. Waste Characteristics and Volumes	60	20	40	-
C. Market Alternatives	160	-	-	10
D. Incinerator Size and Type	50	40	20	10
E. Alternative Cost Evaluation	70	40	60	10
F. Prepare Feasibility Study	120	40	80	20
G. Presentation of Study	20	10	10	-
TOTAL	580	150	290	50
Estimated Labor Budget	\$ 31,900			
Estimated Direct Expenses	1,700			
Estimated Study Reproduction	300			
TOTAL BUDGET ESTIMATE	\$ 33,900			

* Project Manager will also provide input as the Solid Waste Specialist.

9/4/80

Laurel garbage veto is upheld

By DONNA KILPATRICK
For The Gazette

LAUREL — The Laurel city council Tuesday night considered overriding Mayor Larry Herman's veto of the lease-purchase of a garbage compacter but bowed to pressure brought by business people and decided to wait until the next council meeting for their final decision.

A motion to override the veto was recalled by Duane Behm chairman of the garbage committee, after testimony by businessmen concerning their garbage rates.

However, after the meet-

ing Harold Weispfenning, sales representative for Tractor and Equipment Company whose firm received the low bid on the lease purchase of the compacter, requested a special meeting of the council for Wednesday at 6:30 p.m. so his company "would know where we stand. We brought the machine here in good faith after the council accepted our low bid," Weispfenning said.

Several Laurel businessmen have indicated they will seek an injunction to keep the city from lease-purchasing the compacter. Claude Cory, a spokesman for the group said it is felt that the equipment should not be purchased until funds are available and that permission for the purchase of such costly equipment

should come by vote of the people.

A second part of the proposed legal action deals with the garbage rate schedule. But city councilmen Tuesday night said they would be willing to work with a committee of businessmen and residents to establish an equitable rate system. It is thought by the chamber group that the year is to far gone to do anything with the rates.

Since early this year there has been a council committee working with representatives of the chamber setting up the present rate schedule. However it was reported Tuesday night that the two representatives, Tim Zent and Dick Michel, had not approved of any of the rates decided upon nor did they have any

input.

In the Mayor's veto of the compacter's lease-purchase, he cited that there would be deficiency in the garbage fund of approximately \$20,000 if the the compacter is leased; that the urgency of the repair of existing equipment outweighs the need for a compacter at this time and that there is a threat by the business community to file suit for injunction against the city if the lease purchase is carried through.

He recommended that the question of a new compacter be reconsidered in a year.

Behm conceded the budget would be tight with the purchase of the compacter but he added, "It's never going to get any better."

Laurel to vote on ending city junk service

By DONNA KILPATRICK
For The Gazette

LAUREL — Whether to continue in the garbage hauling business or to turn it over to a private company will be decided by the Laurel City Council at its regular meeting Tuesday night.

The garbage committee wants the consensus of the entire council regarding the future of garbage service.

The city ended the fiscal year with a \$21,000 deficit in the garbage fund. Since that time, the garbage committee has been working to devise an equitable rate system.

As soon as the rate is determined, a monthly billing, as opposed to the once a year tax payment, will be started to provide a more accessible cash flow for the fund.

The committee recently received a recommendation from the Laurel Chamber of Commerce that the service be contracted out to a private firm.

Acting on the chambers recommendation, the garbage committee received a proposal from a private garbage hauling company.

Asking to remain unidentified because to publicize his proposal would be to jeopardize his bid, one Billings businessman said his proposal is under the city's cost assessment because under his plan the garbage would be taken to the Billings landfill.

The expense of operating the city's landfill could be omitted. The proposal would include purchasing the city's Rapid Rail trucks and containers. Service twice weekly in the residential area and daily six times a week in the commercial area would remain the same.

To remain in the garbage hauling business, the city will be faced with replacing landfill equipment, which will undoubtedly require the need for a garbage rate increase.

More time and study may be needed before the final decision can be made. City Engineer, Curt MacKenzie explained that a use analysis of various landfills in the state, Laurels included, is planned and information received from that study would be helpful in making the final decision.

Albert Ehrlick, first ward alderman and a member of the garbage committee, sees some problems in the private proposal, " They will just get their foot in the door, and then they too will need a rate increase."

Billings
Gazette
3/18/80

YELLOWSTONE COUNTY AIR POLLUTION CONTROL

3302 SECOND AVENUE NORTH — PHONE 252-0756

BILLINGS, MONTANA 59101

June 21, 1974

Mr. Terrence Carmody
Solid Waste Management Bureau
State Department of Health
and Environmental Sciences
Helena, Montana 59601

Dear Mr. Carmody:

Our office is again receiving complaints about the service schedule of Redman Sanitation Service in Laurel. A list of complainants is attached. During a recent conversation with Mr. Irvin Siemson, I was informed that Yellowstone Sanitation was given temporary authority to go up to the overpass at the east edge of Laurel and no further. This has helped a great deal but still leaves the Laurel area residents without adequate service.

Incidentally, conversations with people concerned indicate that the difference in charges, \$2.50/month by Redman vs \$4.50/month by Yellowstone, is insignificant considering the better service. At this writing Mr. Siemson says that his garbage has not been picked up for a month due to mechanical problems with Mr. Redman's packer.

I thank you for your previous efforts to insure adequate service to the people in the western portion of our county and hope that something can be done to rectify the present situation.

Sincerely,

James L. Glenn

James L. Glenn
Program Director

JLG:sjt

Enclosure

*have called him about
this on June 28, 1974
AL*

RECEIVED
JUN 28 1974
MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

YELLOWSTONE COUNTY AIR POLLUTION CONTROL

1001 SECOND AVENUE NORTH - BILLINGS, MONTANA 59101

BILLINGS, MONTANA 59101

June 21, 1974

Mr. Terrence Carney
Solid Waste Management Bureau
State Department of Health
and Environmental Sciences
Helena, Montana 59601

Dear Mr. Carney:

Our office is again receiving complaints about the service schedule of Rehman Sanitation Service in Laurel. A list of complainants is attached. During a recent conversation with Mr. Edwin Stinson, I was informed that Yellowstone Sanitation was given temporary authority to go up to the overpass at the east edge of Laurel and no further. This has helped a great deal but still leaves the Laurel area residents without adequate service.

Incidentally, conversations with people concerned indicate that the difference in charges, \$150/month by Rehman vs \$4.50/month by Yellowstone, is insignificant considering the better service. At this writing Mr. Stinson says that his garbage has not been picked up for a month due to mechanical problems with Mr. Rehman's truck.

I thank you for your previous efforts to insure adequate service as the people in the western portion of our county and hope that something can be done to rectify the present situation.

Sincerely,

James L. Brown
Program Director

JLB:sjc

RECEIVED

JUN 25 1974

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

COMPLAINANTS ON REDMAN SERVICE IN LAUREL AREA - June 21, 1974

William J. Bernhardt, Route 1, Box 345, Laurel, MT - 698-6826

Irvin Siemsen, Route 1, Box 231, Laurel, MT - 698-6532

Oren Osborne, 64th Street West, Route 1, Billings, MT - 656-5407

Leslie Forstner, 53rd Street West & Danford, Billings, MT

Mrs. Ronald Walters, Route 1, Box 188A, Laurel, MT

COPIES OF THE FOLLOWING REPORTS TO BE FURNISHED TO THE
MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION
BY THE FOLLOWING PERSONS:
1. Mr. J. L. BARNETT, Route 1, Box 141, Laurel, MT - 59044
2. Mr. J. L. BARNETT, Route 1, Box 141, Laurel, MT - 59044
3. Mr. J. L. BARNETT, Route 1, Box 141, Laurel, MT - 59044
4. Mr. J. L. BARNETT, Route 1, Box 141, Laurel, MT - 59044
5. Mr. J. L. BARNETT, Route 1, Box 141, Laurel, MT - 59044

RECEIVED

JUN 25 1974

**MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION**

YELLOWSTONE COUNTY AIR POLLUTION CONTROL

3302 SECOND AVENUE NORTH — PHONE 252-0756

BILLINGS, MONTANA 59101

May 3, 1974

Mr. Louis G. Boedecker
Chairman, Montana State Railroad Commission
Helena, Montana 59601

Dear Mr. Boedecker:

Please accept this letter as an official complaint lodged by the Yellowstone County Air Pollution Control Program regarding garbage and trash collection service in the Laurel area of Yellowstone County. Our information indicates the only pick-up service available to the residents of Laurel and vicinity, Redman Sanitation Service, does not operate regularly scheduled runs and at times fails to remove trash for periods greater than a month.

Because State and local air pollution control regulations will not allow the open burning of garbage and trash if a disposal service is available, persons served in such a sporadic manner are inconvenienced enormously and this is reflected in unauthorized open burning.

As Mr. Redman is operating under an MRC license and competing firms cannot enter his territory, I hope that your commission can apply appropriate pressure to give subscribers to his service acceptable services.

Any support the Railroad Commission can extend in this matter will be greatly appreciated. If you require any information that this agency might supply, please feel free to request it.

Sincerely,

James L. Glenn
Program Director

JLG:sjt

cc: Mrs. Jean Bowman, Chairwoman, Air Pollution Control Board, Billings
Mr. Ben Wake, State Department of Health and Environmental Sciences,
Helena
Mr. Terrence Carmody, Solid Waste Management, State Department of
Health and Environmental Sciences, Helena

YELLOWSTONE COUNTY AIR POLLUTION CONTROL

3305 SECOND AVENUE NORTH — PHONE 252-0756

BILLINGS, MONTANA 59101

Mr. J. J. [unclear]

Assistant, Montana State Railroad Commission

Billings, Montana 59101

Dear Mr. [unclear]:

Please accept this letter as official communication from the Yellowstone County Air Pollution Control Board regarding a request for information regarding the latest state of affairs in the county of Yellowstone. The Board is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same. The Board is particularly interested in any information you may have regarding the use of solid waste in the county and the impact of such use on the air quality. The Board is also interested in any information you may have regarding the use of fossil fuels in the county and the impact of such use on the air quality. The Board is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same.

Yellowstone County Air Pollution Control Board is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same. The Board is particularly interested in any information you may have regarding the use of solid waste in the county and the impact of such use on the air quality. The Board is also interested in any information you may have regarding the use of fossil fuels in the county and the impact of such use on the air quality. The Board is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same.

As Mr. [unclear] is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same. The Board is particularly interested in any information you may have regarding the use of solid waste in the county and the impact of such use on the air quality. The Board is also interested in any information you may have regarding the use of fossil fuels in the county and the impact of such use on the air quality. The Board is currently conducting a study of the air quality in the county and is interested in any information you may have regarding the same.

Very respectfully,
[unclear]
[unclear]

Sincerely,

RECEIVED

MAY 09 1974

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

YELLOWSTONE COUNTY AIR POLLUTION CONTROL COMPLAINT

DATE 5/16/74 TIME 9:45 a.m.RECEIVED BY Dugan COMPLAINANT Mrs. Frank WagnerADDRESS 3019 66th St SWPHONE NO. 656-2181NATURE OF COMPLAINT: WHO Will RedmanWHAT doesn't pick up garbage regularly.WHEN nowWHERE 66th St. SW

WHY

REFERRED TO Carmody FOR ACTION.SUGGESTED ACTION: Talked to APC. They will issue atemporary permit to E. Parker to cover this area.5/16/74 JRC

RECEIVED

MAY 07 1974

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

YELLOWSTONE COUNTY AIR POLLUTION CONTROL COMPLAINT

Laurel
↑ Camody

DATE February 4, 1974 TIME 3:35 P.M.

RECEIVED BY Air Pollution Control COMPLAINANT Mrs Ronald Walters
Route 1, Box 1889, Laurel
PHONE NO. _____

NATURE OF COMPLAINT: WHO Redman Enterprises

WHAT no collection of garbage since
January 4, 1974

WHEN _____

WHERE Residence

WHY _____

REFERRED TO Solid Waste Disposal + County Sew. FOR ACTION.

SUGGESTED ACTION: Called Allen Bond - everything okay now
for

RECEIVED

FEB 5 1974

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES
SOLID WASTE SECTION

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

1629 Avenue D, Building B, Suite 1, Billings, Montana 59102

'73 MAY 10 PM 11:25

STATE OF MONTANA
DEPT. OF STATE LANDS
AND INVESTMENTS

May 8, 1973

Mr. Mike Grende
Reclamation Division
Dept. of State Lands and Investments
Helena, Montana 59601

Dear Mike:

Reference is made to your phone request today for "Soil Features Affecting Land Use Decisions" for the SW $\frac{1}{4}$, Sec 33, T1S, R24E (that portion west of the county road). The proposed use of this parcel of land is for a land fill serving the City of Laurel and surrounding area.

I have prepared a table of soil characteristics pertinent to use as a land fill. The part of the table covering sewage disposal fields and sewage lagoons may seem a little superfluous. I included this data to point out the all-importance of slope and soil permeability. Often times land fills and sewage disposal fields function in a similar manner.

A field trip to the proposed site shows the following:

1. The south part of the site is within a city block of existing dwellings. City expansion has been accelerated in this direction.
2. The site is adjacent to a well traveled oiled county road.
3. It's across the road west from the Laurel cemetery.
4. It's a mile west of the airport.
5. Parts of the (Hs) soils have more than a 35% slope.
6. The site is exposed to the prevailing southwest winds.
7. Bedrock in the area is shale at depths of from 10 inches to somewhat over 10 feet.
8. The topography of the site is such that the great bulk of runoff from the area finds its way into the large coulee along the west edge of the plot. This coulee flows south



May 8, 1973

into the City of Laurel and loses itself in a series of drains, ditches, canals, streets, barrow pits, etc. A cloudburst in this area poses a threat to Laurel.

That part of the plot that drains east finds its way into a coulee that runs southeast into the east part of Laurel where it empties into an open drain.

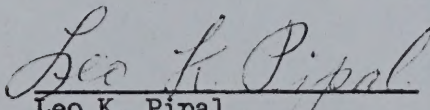
9. The shale underlying the soils of the area are impermeable or very slowly permeable. Rain, snow melt, or liquid wastes deposited will rapidly percolate through the gravels above the shale on the (Hs) soils then ride the impermeable shales to some lower elevation in the direction of Laurel-perhaps become a part of the water table found in many parts of the town.

This same sequence of action will be found on the (Sr) soils but at a somewhat slower rate.

10. It will be very difficult to stop movement of liquids as they ride the top layers of shale south.
11. By removing the gravel and gravelly loam soils from the shale it is possible to excavate into the shale deep enough to find adequate or near adequate confinement for non-biodegradable wastes. Excavation would have to be well beyond the upper layers of weathered shale. Obviously this will be very costly.
12. The costly care of non-biodegradable wastes at the site still doesn't take care of the other wastes.

Attached find a soils map (on photo background) of the area. The plot discussed is outlined in red. Table I is also attached.

Very truly yours,


Leo K. Pipal
District Conservationist

Attachments

cc: Ted Schwinden, Commissioner, Dept. of State Lands

into the city of London and from there to a station at Reading, where it will be loaded.

That part of the line from London and from the city of London to the station at Reading will be loaded into a car and from there it will be loaded into a car and from there it will be loaded.

9. The whole railway line from the city of London to the station at Reading will be loaded into a car and from there it will be loaded into a car and from there it will be loaded.

This new railway line will be loaded into a car and from there it will be loaded into a car and from there it will be loaded.

10. It will be very difficult to find a car to load the goods from the city of London to the station at Reading.

11. By passing the goods and from the city of London to the station at Reading it will be very difficult to find a car to load the goods from the city of London to the station at Reading.

12. The goods from the city of London to the station at Reading will be very difficult to find a car to load the goods from the city of London to the station at Reading.

13. The goods from the city of London to the station at Reading will be very difficult to find a car to load the goods from the city of London to the station at Reading.

Very truly yours,

John W. Jones

Manager

For the London, Birmingham and Manchester Railway